

SITE INVESTIGATION REPORT

BRATTLEBORO NORTH PLAZA

BRATTLEBORO, VERMONT

SITE #94 ~~1623~~ 1613

DECEMBER 28, 1994

E M S

Environmental Management Service

5 Helen Street, Fanwood, New Jersey 07023

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ANALYTICAL-- VOLUME I & VOLUME II		

1.0 BACKGROUND

The Brattleboro North Plaza site is a shopping center with tenants that include AMES, a supermarket, several clothing stores, a drug store, a pizza shop and laundry (formerly a dry cleaner).

In May 1994 a Phase I and Phase II Oil and Hazardous Site Evaluation Report on the Brattleboro North Plaza was submitted by Haley and Aldrich, Inc.

This report was followed by a "Report on Supplemental Groundwater Sampling," issued by Haley and Aldrich in June 1994.

As a result of the findings, the Vermont Department of Environmental Conservation issued a letter in August 1994. This letter outlined the need to delineate the extent of groundwater contamination. Since PCE, antimony and PCB's were discovered in one or more of the three monitoring wells, the Vermont DEC outlined the need to determine the extent and source of the contaminants by installing additional wells and performing another round of sampling.

1.1 Location of Site (Wells)

Three additional monitoring wells were installed in September 1994. The location of these wells is shown on the Site Map in Figure 1.

2.0 SITE INVESTIGATION/FINDINGS

On September 16, 1994 Richard Spiese, Acting Supervisor of the Site Management Section of the Vermont DEC concurred with the additional well placement proposed by EMS. On September 28, 1994 the wells were placed. The first well (upgradient) was drilled and clay was observed at 20 feet with little evidence of water. Following this observation, the previous well (102) was checked for water level and found to contain approximately 3' of water. A call was placed to Richard Spiese to discuss placement of the westerly downgradient well. It was felt that we were along the edge of a basin and we would have to bring the downgradient well in closer if we were to get water. He agreed that this sounded logical, but it had to be our judgment call. The lead driller for Cushing and Son along with Ray Stenger of EMS agreed that the well should be brought in closer, but the location was on the same lines as the estimated groundwater flow direction away from the UST that is believed to be the source of the contamination. During this phone call Richard Spiese asked that the soil taken at the groundwater interface on the next two wells be collected and analyzed for the same parameters of contaminants as found in the groundwater. These results are reported in Table 1.

On November 10, 1994 a representative of EMS returned to the site and sampled four wells, two of the previous three wells (the most upgradient, north end of the shopping center, did not show any contamination and was not resampled) and two of the newest three wells were sampled (the most upgradient well of these three did not contain any water). The results of this sampling are reported in Table 2.

3.0 DISCUSSION OF FINDINGS

PCE was found in MW102 at 51 ppb compared with 84 ppb found in May 1994. MW202 indicated the presence of PCE at 11 ppb. The groundwater in this area is in a contained basin and bound in a vertical direction by clay and rock. Any further impact is unlikely.

Reanalysis of MW102 for PCB was found to be <1.0 ppb. The new upgradient well MW202 also indicated PCB's <1.0 ppb.

Antimony was found to be <10.0 ppb in all four wells.

The soil sample analysis from borings at MW202 and MW203 supported the groundwater findings.

4.0 CONCLUSIONS

The primary contaminant of concern is PCE. The groundwater in the area of concern is believed to be confined in a basin. It is unlikely that off-site migration of contamination will occur. Vertical migration is unlikely due to the presence of a clay layer underlying the groundwater.

Antimony and PCB's do not appear to be present and thus should not be of concern.

5.0 RECOMMENDATIONS

- No public drinking water supplies are present at or near the site. No further action is required.
- Antimony and PCB's were detected below threshold levels of remediation and no further action is recommended.
- Removal of the UST associated with former dry cleaners and performing the associated post excavation sampling should resolve the source of the PCE. Any required remediation associated with this tank should then allow closure of this case.

Table 1
Concentration of volatiles, PCB's and Antimony in soils at groundwater interface

	<u>MW 201 ?</u>	MW202	MW203
Volatile Organics			
Target (ppb)		ND	35 (xylene)
Library Search*		—	—
PCB's - all (ppb)		<17.0	<17.0
Antimony		<1.0	<1.0

* compounds identified as unknown

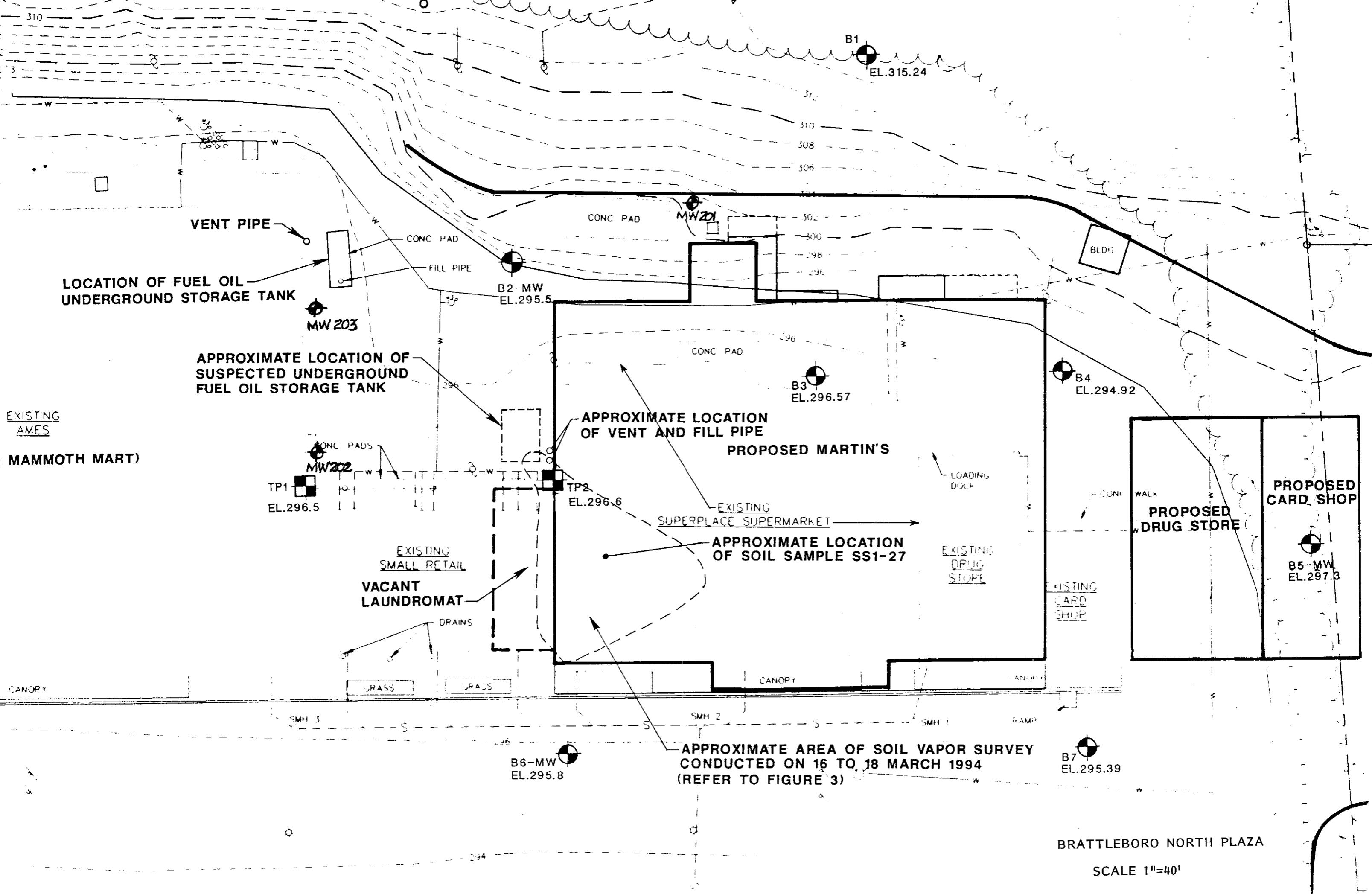
Table 2

Concentration of volatiles, PCB's and Antimony in Groundwater

	201	202	102	106
Volatile Organics				
Target (ppb)	ND	11	51	**
Library Search*	5	4	4	—
PCB's - all (ppb)	**	<1.0	<1.0	**
Antimony	<10.0	<10.0	<10.0	<10.0

* compounds identified as unknown

** previous sampling rounds did not indicate the presence of these compounds at these wells and were not requested on this round



ANALAB INC.

205 Campus Plaza 1, Raritan Center, Edison, NJ 08837, Tel: (908) 225-4111, Fax: (908) 225-4110

NOVEMBER 2, 1994

STENGER ASSOC.
25-5 BROAD ST.
FREEHOLD, NJ 07728
Attn: R. STENGER

Analytical Report: 94-10-0172 Project: GIBRALTAR/BRATTLEBORO

This technical report contains the analytical results of two (2) samples submitted to Analab on October 03, 1994. The following analysis was requested:

VOLATILE ORGANICS (8240) + LIBRARY SEARCHES (2)
PCBs (2)
ANTIMONY (2)

Respectfully submitted,



Robert F. Hulit
Manager of Laboratory Services

RH/lw

ANALab INC.

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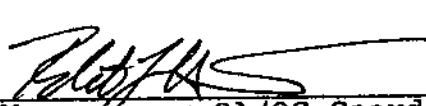
LABORATORY DELIVERABLES CHECKLIST

94-10-0172

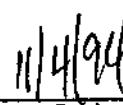
THIS FORM HAS BEEN COMPLETED BY THE LABORATORY AND IS AVAILABLE TO THE ENVIRONMENTAL CONSULTANT TO ACCOMPANY ALL DATA SUBMISSIONS

The following laboratory deliverables are included in this Analytical Report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non-Conformance Summary.

- | | | |
|-------|---|-----|
| I. | Report Cover Page, Laboratory Certification and Field Sample to Lab Sample ID Cross Reference | ✓ |
| II. | Table of Contents | ✓ |
| III. | Chain of Custody Documents | ✓ |
| IV. | Methodology Summaries | ✓ |
| V. | Laboratory Chronicle and Hold Time Checks | ✓ |
| VI. | Non-Conformance Summary | ✓ |
| VII. | Tabulated Analytical Results | ✓ |
| VIII. | Initial and Continuing Calibration Information | ✓ |
| IX. | Tune and Internal Standard Area Summaries (GC/MS) | ✓ |
| X. | Quality Control Summary Reports | ✓ |
| XI. | Surrogate Recovery Summary | ✓ |
| XII. | Raw Data Chromatograms, Blank, QCs and Samples | ✓ |
| XIII. | Subsidiary Information (Subcontract if applicable) | N/A |



Laboratory Manager or QA/QC Coordinator

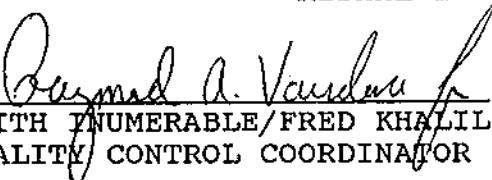


Date

ANALAB INC. 205 Campus Plaza 1, Raritan Center, Edison, NJ 08837, Tel: (908) 225-4111, Fax: (908) 225-4110ANALYTICAL DATA REPORT PACKAGE
STENGER ASSOCIATES, INC.
279 PLYMOUTH DRIVE
FREEHOLD, NJ 07728CLIENT PROJECT: GIBRALTER/BRATTLEBORO
SAMPLE(s) RECEIVED DATE: 10/03/94

PROJECT: N/A

<u>SAMPLE ID</u>	<u>SAMPLE DESCRIPTION/LOCATION</u>	<u>SAMPLE DATE/TIME</u>
94-10-0172-001	AMES MW 202	9/28/94 ; N/A
94-10-0172-002	AMES MW 203	9/28/94 ; N/A

LABORATORY CERTIFICATION NUMBERSNJDEP ID:12531 MADEQE ID:NJ302 VADGS ID:00007 NYDOH:11104
NHDES ID:250492-A,B CTDHS ID:PH-0649 MDDHMH ID:186
RIDHHL ID:NJ12531 PADER ID:68-368
EDITH T. NUMERABLE/FRED KHALIL
QUALITY CONTROL COORDINATOR
ROBERT F. HULIT
MANAGER OF LABORATORY SERVICES

COMMENTS:

NA = NOT AVAILABLE FROM CHAIN OF CUSTODY / NOT APPLICABLE

TABLE OF CONTENTS**PROJECT NUMBER: 94-10-0172****CHAIN OF CUSTODY RECORDS****METHOD SUMMARIES****LABORATORY CHRONICLE****CASE NARRATIVE/NONCONFORMANCE SUMMARY****TABULATED ANALYTICAL RESULTS**

GC/MS Volatile Organics

GC Extractable Organics

METALS ANALYSIS

WET CHEMISTRY ANALYSIS

GC/MS TUNE, CALIBRATION, AND INTERNAL STANDARD AREA SUMMARIES

GC/MS Volatile Organics - BFB

GC INITIAL & CONTINUING CALIBRATION REPORTS

GC Extractable Organics

METALS INITIAL & CONTINUING CALIBRATION & BLANK SUMMARY**QUALITY CONTROL SUMMARY REPORTS**

GC/MS Volatile Organics QC Summary

GC Extractable Organics QC Summary

Metals QC Summary

RAW DATA

GC/MS Volatile Organics Raw Data

GC/MS Volatile Organics Raw Data Library Plus Search

GC Extractable Organics

xx

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CHAIN OF CUSTODY RECORDS

ANALab INC.

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ENVIRONMENTAL ANALYTICAL LABORATORY SERVICES FAX (908) 225-4110

CHAIN-OF-CUSTODY RECORD
and
Work Authorization

LA8 SDG NO.: (FOR LAB USE
ONLY) *366-1*

NO.: (FOR LAB USE)
94-10-172

FAILURE TO PRINT CLEARLY, LEGIBLY AND COMPLETELY MAY RESULT IN DELAYS. ANY ANALYSIS REQUEST NOT ENTERED COMPLETELY, CLEARLY AND LEGIBLY OR WHICH IS CONFUSING OR AMBIGUOUS MAY RESULT IN DELAYS. SAMPLES CAN NOT BE LOGGED IN AND THE TURNAROUND TIME CLOCK WILL NOT START UNTIL ANY AMBIGUITIES ARE RESOLVED. TO AVOID THIS, PRINT CLEARLY, LEGIBLY AND COMPLETELY.

SAMPLER/SUBMITTER'S STATEMENT: I attest that the proper field sampling procedures were used during the collection: Name (print) _____
of these samples and that the information on this Chain of Custody and the analysis(es) requested are true and correct.

Signature:

RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:	REASON:	RELINQUISHED TO LABORATORY BY:	ACCEPTED FOR LAB BY	DATE	TIME
Kathy Steiger		10/3/94			Kathy Steiger	JM.M.D.	10/3/94	1:11

REMARKS:	All Samples Received
Temp.	<u>cool</u> 'C Cool
Samples Intact	<input checked="" type="radio"/> Yes No
Properly Preserved	<input checked="" type="radio"/> Yes No

LABORATORY COMMENTS: (Lab Use Only)

10/13/94 - ON HOLD AS PER RAY STENGER
10/13/94 - OK TO ANALYZE AS PER RAY.
CLIENT IS AWARE SAMPLES
ARE OUT OF HOLD TIME! ~~AS PER RAY~~

DATA DELIVERABLES

Tier I Tier II Results Only

1CRA Other:

STANDARD TURNAROUND TIME (2-3 Weeks)

PRIORITY TURNAROUND TIME AUTHORIZATION

Before submitting samples for expedited T.A.T. you must have requested in advance and received a coded T.A.T. AUTHORIZATION NUMBER from the office of V.P. of Lab Operations.

AUTHORIZATION NO.: _____
T.A.T. AUTHORIZED: _____

METHOD SUMMARIES

METHODOLOGY SUMMARY

<u>PARAMETER</u>	<u>REFERENCES</u>
Alumina Column Cleanup and Separation of Petroleum Wastes	<u>Test Methods for Evaluating Solid Wastes</u> : Vol. 1B, USEPA SW-846, 1986, Method 3611.
Volatile Organics (GC/MS)	<u>Test Methods for Evaluating Solid Wastes</u> : Vol. 1B, USEPA SW-846, 1986, Method 8240. <u>Test Methods for Evaluating Solid Wastes Physical/Chemical Methods</u> : 2nd USEPA SW-846, 1982, Methods 5020 and 5030.
	Title 40 CFR Part 136 " Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, Method 624", July 1, 1988.
Semi-Volatile Organics (GC/MS)	<u>USEPA Contact Laboratory Program (CLP) Statement of Work for Organics Analysis</u> , 9/88. <u>Test Methods for Evaluating Solid Wastes Physical/Chemical Methods</u> : 2nd ed., USEPA SW-846, 1982, Method 8270. <u>Test Methods for Evaluating Solid Wastes</u> : Vol. 1B, USEPA SW-846, 1986, Method 3550.
	Title 40 CFR Part 136 " Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, Method 625", July 1, 1988. <u>USEPA Contact Laboratory Program (CLP) Statement of Work for Organic Analysis</u> , 9/88.
Volatile Aromatics (GC)	<u>Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater</u> : USEPA 600/4-81-057, 1981, Method 503.1. Title 40 CFR Part 136 " Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, Method 602", July 1, 1988.
TCLP (Toxicity Characteristics Leachate Procedure)	Title 40 CFR Part 261 "Hazardous Waste Management System; Identification and Listing of Hazardous Waste; Toxicity Characteristics Revisions; Final Rule", June 29, 1990.
Percent Solids	<u>Methods for Chemical Analysis of Water and Wastes</u> : USEPA 600/4-79-200, 1983, Method 160.3. Standard Methods for the Examination of Water and Wastewater, 16th ed., pp. 92-94, Method 209A, (1985).

METHODOLOGY SUMMARY**PETROLEUM HYDROCARBONS BY GC-FID**

California Department of Health Services Analytical Method for Total Petroleum Hydrocarbon Analysis by GC/FID (modified for use with capillary or Megabore Column) and Test Methods for Evaluating Solid Wastes; Vol. IA USEPA SW-846, 1986, Method 8015 (modified).

<u>PARAMETER</u>	<u>REFERENCES</u>
Methanol Parameters	Methanol Analysis is performed by Direct Aqueous Injection Technique. Separation is performed on a RTX-1 Chromatography column and is detected using a Gas Chromatograph with an FID detector.
Pesticides/PCBs (GC)	Standard Methods for the Examination of Water and Wastewater, 16th pp. 538-548, Methods 509A, (1985).
	<u>Test Methods for Evaluating Solid Wastes</u> ; 2ND ED., USEPA SW-846, 1982, Method 8270.
	<u>Test Methods for Evaluating Solid Wastes</u> ; Vol. 1B, USEPA SW-846, 1986, Method 8080.
	Title 40 CFR Part 136 " Guidelines Establishing Test Procedures for Water Act, Method 608", July 1, 1988.
PCBs in Oil Matrix (GC)	<u>Methods for Chemical Analysis of Water and Wastes</u> ; USEPA 600/4-81-045, 1982.
Herbicides (GC)	Standard Methods for the Examination of Water and Wastewater, 16th pp. 554-569, Method 509b, (1985).

METHODOLOGY SUMMARY**Metals**

Methods of Chemical Analysis of Water and Wastes; USEPA 600/4-79-200, 1983, Section 200.

Standard Methods for the Examination of Water and Wastewater, 16th ed., pp. 148-179, Methods 302A through D, 303A through F, and 304, (1985).

Test Methods for Evaluating Solid Wastes; Vol. 1A USEPA SW-846, 1986, Chapters 3.2 and 3.3.

Title 40 CFR Part 141 " National Primary Drinking Water Regulation, Section 141.23", July 1, 1988.

TCLP (Toxicity Characteristics Leachate Procedure)

Title 40 CFR Part 261 "Hazardous Waste Management System; Identification and Listing of Hazardous Waste; Toxicity Characteristics Revisions; Final Rule", June 29, 1990.

E.P. TOXICITY METALS

Test Methods for Evaluating Solid Wastes; Vol. 1A USEPA SW-846, 1986, Method 1310.

Hexavalent Chromium

Test Methods for Evaluating Solid Wastes; 2nd.ed., USEPA SW-846, Method 3060.

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LABORATORY CHRONICLE

LABORATORY CHRONICLE

CLIENT: STENGER ASSOC.

REPORT NO.: 94-10-0172

SAMPLING DATE: 9/28/94

DATE RECEIVED BY LABORATORY: 10/3/94

<u>LAB SAMPLE ID</u>	<u>EXTRACTION DATE</u>	<u>CLIENT SAMPLE DESIGNATION</u>	<u>PARAMETER</u>	<u>DATE ANALYZED</u>	<u>ANALYST</u>
94-10-0172-1	NA	AMES MW202	VOA(8240)+10	10/15/94	SB MRP
94-10-0172-2	"	AMES MW203	"	"	"
94-10-0172-1	10/4/94	AMES MW202	PCBs	10/21/94	RW
94-10-0172-2	"	AMES MW203	"	10/22/94	"
94-10-0172-1	10/26/94	AMES MW202	SB	10/26/94	DR
94-10-0172-2	"	AMES MW203	"	"	"
94-10-0172-1	NA	AMES MW202	TS	10/14/94	BP
94-10-0172-2	"	AMES MW203	"	"	"

FORM 99
RH/lv

ANALab inc.

205 Campus Plaza 1, Portion Center, Edison, NJ 08837, Tel (908) 225-4111, Fax (908) 225-4110

SAMPLE MANAGEMENT LABORATORY CHRONICLE

CLIENT NAME: Stenger Assoc

LAB PROJECT ID: 94-10-172

CLIENT PROJECT: GIBRALTAR/BRATTLEBORO
RAS #: _____

SAMPLE TEMP ON RECEIPT: 40°C

SAMPLE DATE(S): 9/28/94
SAMPLE MATRIX: H₂O, SOIL

SAMPLE RECEIVE DATE: 10/13/94

CONDITION OF SAMPLES RECEIVED BY LAB:

NA YES NO COMMENTS

Cooler Seal Intact	NA	YES	NO	
Samples Received Cool (2-6'C)	NA	YES	NO	<u>no Temp vial</u>
Samples Received Intact		YES	NO	
Sample Labels Match Chain of Custody.		YES	NO	
VOAs HCL Preserved as per Label or Custody	NA	YES	NO	
VOAs w/out Bubbles, Septa TFE Side Down . .	NA	YES	NO	
Samples Delivered via ANALAB PICK UP. . . .	NA	YES	NO	
Samples Delivered via CLIENT DROP OFF . . .	NA	YES	NO	
Airbill # Present, if by Common Carrier. .	NA	YES	NO	
Traffic Reports Present, if applicable . . .	NA	YES	NO	
Subcontract Analysis Required (Sub COC). . . .	YES	NO		

PRESERVATION CHECKS PERFORMED FOR AQUEOUS SAMPLES NEEDING PH ADJUSTMENT

N/A = IF NOT APPLICABLE

LAB SAMPLE FRACTION PH MEASURED OK COMMENTS BY SM ON RECEIPT

Note: Samples received 10/3/94, on hold until 10/13/94

A diagram consisting of several horizontal lines. In the center, there are two vertical dashed lines. A solid diagonal line starts from the left side, goes upwards and to the right, then turns sharply downwards and to the left, ending near the first dashed line.

Note: NA = Not Applicable or Not Available from Chain of Custody
Temperature taken on receipt from Temperature Surrogate Vial

Sample Custodian Signature

~~ogate via~~
10/3/94 25
10/3/94
Date

CASE NARRATIVE / NONCONFORMANCE SUMMARY

GC/MS ANALYSIS CONFORMANCE/ NON-CONFORMANCE SUMMARY

94-10-0172

NO YES

1. Chromatograms Labeled/Compounds Identified
(Field Samples and Method Blanks) _____
2. GC/MS Tune Specifications
a. BFB Meet Criteria _____
b. DFTPP Meet Criteria _____ N/R
3. GC/MS Tune Frequency - Performed every 24 hours
for 600 series and 12 hours for 8000 series. _____
4. GC/MS Calibration - Initial Calibration performed within
30 days before sample analysis and continuing calibration
performed within 24 hours of sample analysis for 600 series
and 12 hours for 8000 series _____
5. GC/MS Calibration Requirements
a. Calibration Check Compounds _____
b. System Performance Check Compounds _____
6. Blank Free of Contamination, If Not, then list the
Compounds and Concentration in each _____
a. VOA Fraction _____ No TARGET Compounds
b. B/N Fraction _____ N/A
c. Acid Fraction _____ N/A
7. Surrogate Recoveries Meet Criteria _____
If not met, list those compounds and their recoveries
which fall outside the acceptable range:
a. VOA Fraction QC-BLKSPIKE 10/14/94 A4379, 1,2-Dichloroethane D-4 @ 139%
b. B/N Fraction N/A
c. Acid Fraction N/A
If not met, were the calculations checked and the results
qualified as "estimated"? For QC purposes. _____
8. Matrix Spike/ Matrix Spike Duplicate Recoveries Meet Criteria
(If not met, list those compounds and their recoveries
which fall outside the acceptable range) _____
a. VOA Fraction _____
b. B/N Fraction _____
c. Acid Fraction _____

GC/MS ANALYSIS CONFORMANCE/NONCONFORMANCE SUMMARY (CONTINUED)

NO YES

9. Internal Standard Area/Retention Time Shift Meet Criteria

Comments: FOR QC Blank Spike ISSTD #12 and 3 outside limit for A4401, 10/15/94.

ALL SAMPLES within Limits.

10. Extraction Holding Time Met N/A

If not met, list number of days exceeded for each sample:

11. Analysis Holding Time Met: ✓

If not met, list number of days exceeded for each sample:

Additional Comments QC Blank Spike (A4379, 10/14/94) Carbon Disulfide 49%,
Carbon Tetrachloride 0.57%, and 4-Methyl-2-Butanone 16.2%.QA Coordinator(s) : Terry J. EganDate: 11/9/94

**NONCONFORMANCE SUMMARY
Plus Searches**PROJECT: 94-10-0172FRACTION: VoaCOMPOUND(s): 1,1,2-Trichloro- 1,2,2-Trifluoroethane

was found in a library search of your sample(s).

was found in library search of the Method Blank(s).

was not found in the Library search of the Method Blank(s).

but is a common laboratory solvent. Its presence may be attributable to laboratory contamination/contribution.

but is a common compound found in most detergents. Its presence may be attributable to laboratory contamination/contribution.

it's presence may be due to column bleed.

ANA

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GC ANALYSIS CONFORMANCE / NON-CONFORMANCE SUMMARY

PROJECT ID: 94-10-0172

No Yes

1. GC Chromatograms Labeled with Compounds Identified _____

(including Field and Laboratory QC Samples)

2. Initial and Continuing Calibration Summaries _____

3. Calibration - Initial Calibration performed within
30 days before sample analysis and continuing
calibration performed within 24 hours of sample
analysis. _____

4. Continuing Calibration Requirements Met _____

5. Retention Time Shift Meets Criteria (if applicable) _____

6. Blank Free of Contamination; If not, List Compounds
and amounts present.

- a. GC Voa Fraction N/A
- b. GC Pesticide N/A
- c. GC PCB Fraction NONE
- d. GC Extractable N/A
- e. GC DAI Voa N/A

7. Extraction Hold Time Met. Comments: _____

8. Analysis Hold Time Met. Comments: _____

9. Surrogate Recoveries Meet Criteria - (If not, list
compounds & their recoveries outside of limits) If
not met, calculations were checked, results are qualified.

- a. GC Voa Fraction N/A
- b. GC Pesticide N/A
- c. GC PCB Fraction OK
- d. GC Extractable N/A
- e. GC DAI Voa N/A

10. Matrix Spike / Matrix Spike Duplicate Recoveries
and % RPD's meet Criteria. If not, list compounds
and recoveries outside of QC limits.

- a. GC Voa Fraction _____
- b. GC Pesticide _____
- c. GC PCB Fraction _____
- d. GC Extractable _____
- e. GC DAI Voa _____

Additional Comments: Re/Soils/8080

Lab or QC Coordinator: Randy HHS

Q&A A:\QCGCNCS

Date: 11/16/94 13A

METALS ANALYSIS CONFORMANCE / NONCONFORMANCE SUMMARY

94-10-0172

- | | No | Yes |
|---|-------------|-------------------------------------|
| 1. Initial Calibration Summary Meets criteria | <hr/> | <input checked="" type="checkbox"/> |
| 2. Continuing Calibration Summary Meets Criteria | <hr/> | <input checked="" type="checkbox"/> |
| 3. ICP Interference Check Sample Results Summary submitted (if applicable) / Meets Criteria | <hr/> | <input type="checkbox"/> <i>N/A</i> |
| 4. Serial Dilution Summary Submitted (if applicable) | <hr/> | <input type="checkbox"/> <i>N/A</i> |
| 5. Laboratory Control Sample (LCS) (QC Blank Spike) summary submitted, recoveries within limits. | <hr/> <hr/> | <input checked="" type="checkbox"/> |
| 6. Method Blank (Prep Blank) Free of Contamination if not, list compounds and concentration. | <hr/> <hr/> | <input checked="" type="checkbox"/> |
| 7. Matrix Spike / Matrix Spike Duplicate Recoveries meet criteria. If not, list the compounds and the recoveries which are outside QC Limits.
<i>QC 94-10-305-7 mg/MSD for Antimony E Recovery 48.6% and 46.6% negative. Due to MATRIX INTERFERENCE!</i> | <hr/> <hr/> | <input checked="" type="checkbox"/> |
| 8. Extraction (Digestion) Holding Time Met
If not, List samples and number of days exceeded. | <hr/> | <input checked="" type="checkbox"/> |
| 9. Analysis Holding Time Met. If not, List samples and number of days exceeded. | <hr/> | <input checked="" type="checkbox"/> |
| 10. Additional Comments: <i>(Sb/Soil) by Furnace AA.</i> | <hr/> <hr/> | |

Lab or QC Coordinator:

Rufus H. H.

Date: *11/3/94*

A:\AANCS Rev.6/94

TABULATED ANALYTICAL RESULTS

GC/MS VOLATILE ORGANICS

ANALYTICAL REPORT FLAGS:

- U** Compound was analyzed but not detected. The number proceeding the analytical flag "U" is the minimum attainable detection limit for the sample.
- J** Compound was detected but below the Method Detected Limits (MDL). Quantitation is approximate.
- B** Compound was found to be present in the Method Blank.
- E** Compound concentration exceeded the calibration range of the GC/MS instrument. Secondary dilution was required.
- D** Compound was identified in the analysis at a secondary dilution factor.

BMDL Compound was detected but below the Method Detection Limit (MDL). Quantitation is approximate.

Compounds detected for Soil/Solid Analysis are reported on a dry weight basis.

Blow holding time
10/10/94

Method 8240 Volatile Organics By GC/MS - Non-Aqueous Matrix

CLIENT : STENGER ASSOCIATES,
 SAMPLE ID: AMES MW 202
 PROJECT: GIBRALTER/BRATTEBO
 SAMPLE VOL. : 1.0G
 DATA FILE: >A4384
 EXTRACT/DATE : N/A
 NJDEP LAB ID : 12531

LAB. SAMPLE ID : 94-10-172-1
 DATE SAMPLED: 9/28/94
 DATE RECEIVED: 10/13/94
 DATE ANALYZED: 05/10/15/94
 DIL. FACT : 5.00
 ANALYST: MR/SB

CAS #	COMPOUND	UG/KG	Q	MDL
74-87-3	CHLOROMETHANE	U		67
74-83-9	BROMOMETHANE	U		67
75-01-4	VINYL CHLORIDE	U		67
75-00-3	CHLOROETHANE	U		67
75-09-2	METHYLENE CHLORIDE	U		33
67-64-1	ACETONE	U		670
75-15-0	CARBON DISULFIDE	U		33
75-35-4	1,1-DICHLOROETHENE	U		33
75-34-3	1,1-DICHLOROETHANE	U		33
156-60-5	TRANS-1,2-DICHLOROETHENE	U		33
67-66-3	CHLOROFORM	U		33
107-06-2	1,2-DICHLOROETHANE	U		33
78-93-3	2-BUTANONE	U		670
71-55-6	1,1,1-TRICHLOROETHANE	U		33
56-23-5	CARBON TETRACHLORIDE	U		33
108-05-4	VINYL ACETATE	U		330
75-27-4	BROMODICHLOROMETHANE	U		33
78-87-5	1,2-DICHLOROPROPANE	U		33
79-01-6	TRICHLOROETHENE	U		33
71-43-2	BENZENE	U		33
10061-015	CIS-1,3-DICHLOROPROPENE	U		33
124-48-1	DIBROMOCHLOROMETHANE	U		33
10061-026	TRANS-1,3-DICHLOROPROPENE	U		33
110-75-8	2-CHLOROETHYL VINYL ETHER	U		67
79-00-5	1,1,2-TRICHLOROETHANE	U		33
75-25-2	BROMOFORM	U		33
108-10-1	4-METHYL-2-PENTANONE	U		330
591-78-6	2-HEXANONE	U		330
79-34-5	1,1,2,2-TETRACHLOROETHANE	U		33
127-18-4	TETRACHLOROETHENE	U		33
108-88-3	TOLUENE	U		33
108-90-7	CHLOROBENZENE	U		33
100-41-4	ETHYL BENZENE	U		33
100-42-5	STYRENE	U		33
95-47-6	O-XYLENE	U		33
1330-20-7	M/P-XYLENE	U		33

QUALIFIERS

- J Indicates detected below MDL, Estimated Value
- U Indicates compound not detected
- B Indicates compound also present in blank
- E Exceeds Calibration Range, Estimated Value

TABLE 1 : QUALITATIVE RESULTS

TENTATIVELY IDENTIFIED ORGANIC COMPOUNDS
GC/MS ANALYSIS DATA SOIL FRACTION

LAB SAMPLE NUMBER : 94-10-172-1(A4384)

$$MC = 5pp^b$$

Number TICs found: 1

~~CONCENTRATION UNITS:~~
(μ g/L or μ g/kg) μ g/kg

Qualifier (Q):

B - Compound also present in the blank

Comments :

Blown out

Method 8240 Volatile Organics By GC/MS - Non-Aqueous Matrix

CLIENT : STENGER ASSOCIATES,
 SAMPLE ID: AMES MW 203
 PROJECT: GIBRALTER/BRATTEBO
 SAMPLE VOL. : 1.0G
 DATA FILE : >A4385
 EXTRACT/DATE : N/A
 NJDEP LAB ID : 12531

LAB SAMPLE ID : 94-10-172-2
 DATE SAMPLED: 9/28/94
 DATE RECEIVED: 10/13/94
 DATE ANALYZED: 10/15/94
 DIL. FACT : 5.00
 ANALYST: MR/SB

CAS #	COMPOUND	UG/KG	Q	MDL
74-87-3	CHLOROMETHANE	U		64
74-83-9	BROMOMETHANE	U		64
75-01-4	VINYL CHLORIDE	U		64
75-00-3	CHLOROETHANE	U		64
75-09-2	METHYLENE CHLORIDE	U		32
67-64-1	ACETONE	U		640
75-15-0	CARBON DISULFIDE	U		32
75-35-4	1,1-DICHLOROETHENE	U		32
75-34-3	1,1-DICHLOROETHANE	U		32
156-60-5	TRANS-1,2-DICHLOROETHENE	U		32
67-66-3	CHLOROFORM	U		32
107-06-2	1,2-DICHLOROETHANE	U		32
78-93-3	2-BUTANONE	U		640
71-55-6	1,1,1-TRICHLOROETHANE	U		32
56-23-5	CARBON TETRACHLORIDE	U		32
108-05-4	VINYL ACETATE	U		320
75-27-4	BROMODICHLOROMETHANE	U		32
78-87-5	1,2-DICHLOROPROPANE	U		32
79-01-6	TRICHLOROETHENE	U		32
71-43-2	BENZENE	U		32
10061-015	CIS-1,3-DICHLOROPROPENE	U		32
124-48-1	DIBROMOCHLOROMETHANE	U		32
10061-026	TRANS-1,3-DICHLOROPROPENE	U		32
110-75-8	2-CHLOROETHYL VINYL ETHER	U		64
79-00-5	1,1,2-TRICHLOROETHANE	U		32
75-25-2	BROMOFORM	U		32
108-10-1	4-METHYL-2-PENTANONE	U		320
591-78-6	2-HEXANONE	U		320
79-34-5	1,1,2,2-TETRACHLOROETHANE	U		32
127-18-4	TETRACHLOROETHENE	U		32
108-88-3	TOLUENE	U		32
108-90-7	CHLOROBENZENE	U		32
100-41-4	ETHYLBENZENE	U		32
100-42-5	STYRENE	U		32
95-47-6	O-XYLENE	U		32
1330-20-7	M/P-XYLENE	35		32

QUALIFIERS

- J Indicates detected below MDL, Estimated Value
- U Indicates compound not detected
- B Indicates compound also present in blank
- E Exceeds Calibration Range, Estimated Value

TABLE 1 : QUALITATIVE RESULTS
TENTATIVELY IDENTIFIED ORGANIC COMPOUNDS
GC/MS ANALYSIS DATA: 90%IC FRACTION

LAB SAMPLE NUMBER : 94-10-172-2(A4385)

Number TICs found: 1 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

Qualifier (Q)

B - Compound also present in the blank

Comments :

ANALAB INC.

205 Campus Plaza 1, Raritan Center, Edison, NJ 08837, Tel: (908) 225-4111, Fax: (908) 225-4110

TABULATED ANALYTICAL RESULTS

GC EXTRACTABLE ORGANICS

1230-113

ANALYTICAL REPORT**PCB ANALYSIS BY GAS CHROMATOGRAPHY**

CLIENT: STENGER ASSOCIATES, INC.
CLIENT PROJECT: GIBRALTER/BRATTEBORO
REPORT DATE : OCT. 28 1994
PROJECT RECEIPT DATE : 10/13/94
av

LAB ID: 94-10-0172 -001
ANALYST RW
ANALYSIS DATE: 10/21/94
MATRIX : SOIL

CLIENT SAMPLE DESIGNATION: JAMES MW 202

<u>COMPOUND</u>	<u>RESULTS (UG/KG)</u>	<u>MDL (UG/KG)</u>
AROCLOL 1016	<17.0	17.0
AROCLOL 1221	<17.0	17.0
AROCLOL 1232	<17.0	17.0
AROCLOL 1242	<17.0	17.0
AROCLOL 1248	<17.0	17.0
AROCLOL 1254	<17.0	17.0
AROCLOL 1260	<17.0	17.0

COMMENTS:

N.D. = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL).
< = LESS THAN
RESULTS ARE REPORTED ON DRY WEIGHT BASIS.

PCB3018

ANALYTICAL REPORT**PCB ANALYSIS BY GAS CHROMATOGRAPHY****CLIENT: STENGER ASSOCIATES, INC.****LAB ID: 94-10-0172 -002****ANALYST RW****CLIENT PROJECT: GIBRALTER/BRATTLEBORO****ANALYSIS DATE: 10/22/94****REPORT DATE : OCT. 28 1994****MATRIX : SOIL****PROJECT RECEIPT DATE : 10/23/94****QV****CLIENT SAMPLE DESIGNATION: AMES MW 203**

<u>COMPOUND</u>	<u>RESULTS (UG/KG)</u>	<u>MDL (UG/KG)</u>
AROCLORE 1016	<17.0	17.0
AROCLORE 1221	<17.0	17.0
AROCLORE 1232	<17.0	17.0
AROCLORE 1242	<17.0	17.0
AROCLORE 1248	<17.0	17.0
AROCLORE 1254	<17.0	17.0
AROCLORE 1260	<17.0	17.0

COMMENTS:**N.D. = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL).****< = LESS THAN****RESULTS ARE REPORTED ON DRY WEIGHT BASIS.****PCB3018**

TABULATED ANALYTICAL RESULTS

METALS ANALYSIS

ANALYTICAL REPORT**Trace Metals**

CLIENT: STENGER ASSOCIATES, INC.
CLIENT PROJECT: GIBRALTER/BRATTEBORO
CLIENT ID: AMES MW 202
REPORT DATE : NOV. 2 1994
PROJECT RECEIPT DATE: 10/23/94

LAB ID: 94-10-0172-001

ANALYST: JD/RS/DR
ANALYSIS DATE: 10/26/94

<u>PARAMETER</u>	<u>RESULTS (Mg/Kg)</u>	<u>MDL (Mg/Kg)</u>
Antimony	<1.0	1.0

COMMENTS:

FILTERABLE ORGANIC LIQUIDS ARE REPORTED ON A WEIGHT BASIS ONLY.
S = RESULTS BY METHOD OF ADDITION PROCEDURE
< = LESS THAN
+ = CORRELATION COEFFICIENT FOR METHOD OF ADDITION IS LESS
THAN 0.995 AFTER REPEATED ONCE.

ME210

ANALYTICAL REPORT

Trace Metals

CLIENT: STENGER ASSOCIATES, INC.
CLIENT PROJECT: GIBRALTER/BRATTEBORO
CLIENT ID: AMES MW 203
REPORT DATE : NOV. 2 1994
PROJECT RECEIPT DATE: 10/13/94
av

LAB ID: 94-10-0172-002
ANALYST: JD/RS/DR
ANALYSIS DATE: 10/26/94

<u>PARAMETER</u>	<u>RESULTS (Mg/Kg)</u>	<u>MDL (Mg/Kg)</u>
Antimony	<1.0	1.0

COMMENTS:

FILTERABLE ORGANIC LIQUIDS ARE REPORTED ON A WEIGHT BASIS ONLY.
S = RESULTS BY METHOD OF ADDITION PROCEDURE
< = LESS THAN
+ = CORRELATION COEFFICIENT FOR METHOD OF ADDITION IS LESS
THAN 0.995 AFTER REPEATED ONCE.

ME210

TABULATED ANALYTICAL RESULTS

WET CHEMISTRY

**ANALYTICAL REPORT
PERCENT SOLIDS**

CLIENT: STENGER ASSOCIATES, INC.
CLIENT PROJECT: GIBRALTER/BRATTLEBORO
REPORT DATE : OCT. 26 1994
PROJECT RECEIPT DATE : 10/23/94
AV

PROJECT: 94-10-0172

ANALYZED BY: BP

<u>CLIENT ID</u>	<u>LAB ID</u>	<u>PERCENT SOLIDS</u>	<u>ANALYSIS DATE</u>
AMES MW 202	001	74.7	10/14/94
AMES MW 203	002	78.3	10/14/94

WC115

GC/MS TUNE, CALIBRATION AND INTERNAL AREA SUMMARIES

GC/MS VOLATILE ORGANICS - BFB

ANALabs inc.
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab File ID: >A4280

Inst. ID: A

BFB Injection Date: 10/12/94

BFB Injection Time: 0937

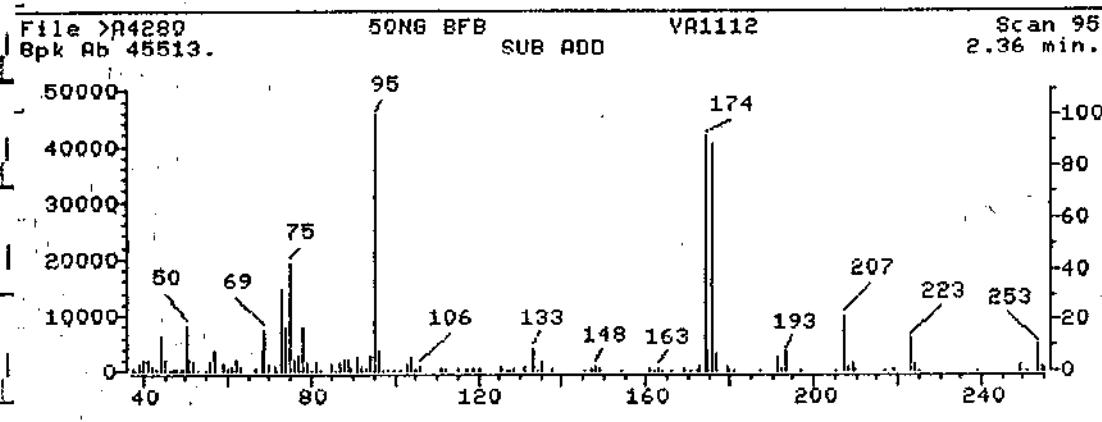
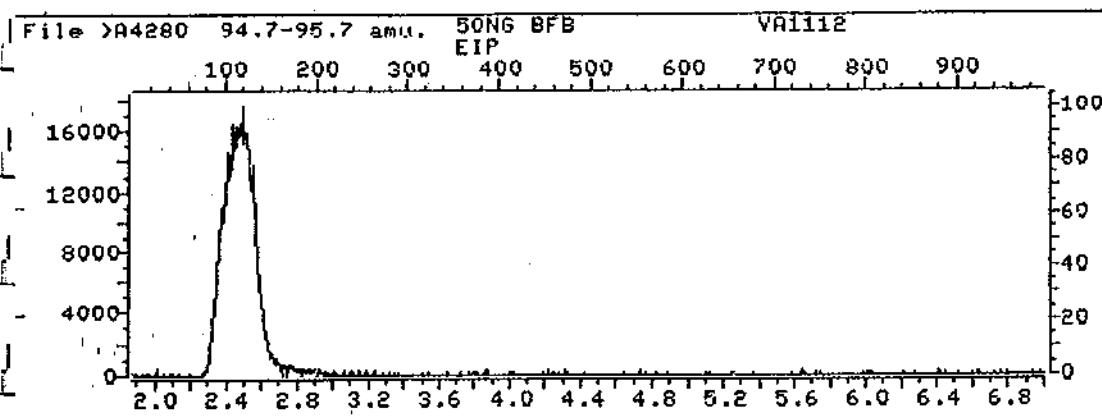
Analyst : MRP

GC/MS Run Batch : VA1112

m/z	Ion Abundance Criteria	% Relative Abundance		
		Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	18.25	18.25	Ok
75	30-60% of mass 95	42.19	42.19	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	8.01	8.01	Ok
173	Less than 2% of mass 174	1.64	1.80	Ok
174	Greater than 50% of mass 95	91.33	91.33	Ok
175	5-9% of mass 174	7.80	8.54	Ok
176	95-101% of mass 174	88.12	96.49	Ok
177	5-9% of mass 176	6.59	7.48	Ok

This tune applies to the following samples, MS, MSD, Blanks, and Standards:

	ANALab	SAMPLE ID	GC/MS DATA FILE	DATE ANALYZED	TIME ANALYZED
1	VOA050		>A4281	10/12/94	0952
2	VOA010		>A4282	10/12/94	1036
3	VOA020		>A4283	10/12/94	1116
4	VOA100		>A4284	10/12/94	1156
5	VOA250		>A4285	10/12/94	1236
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					



Initial Calibration Data
HSL Compounds

Case No:

Instrument ID: GC/MS Sys 1/A SOIL

Contractor: ANALab, Inc.

Calibration Date: 10/12/94

Contract No: NJDEP 12531

Minimum RF for SPCC is 0.3000 Maximum % RSD for CCC is 30.000%

Laboratory ID: >A4282 >A4283 >A42B1 >A4284 >A4285

Compound	RF 10.00	RF 20.00	RF 50.00	RF 100.00	RF 250.00	RRT	RF	% RSD	CCC	SPCC
Chloromethane	.42902	.42809	.46985	.39647	.38463	.356	.42161	7.888	**	
Vinyl Chloride	.51381	.52092	.58465	.48728	.48505	.380	.51995	7.806	*	
Bromomethane	.97136	.93203	1.04233	.89166	.68702	.470	.90488	14.795		
Chloroethane	.36169	.37044	.43090	.35582	.33883	.493	.37154	9.457		
Trichlorofluoromethane	1.57700	1.66013	1.70007	1.58563	1.56305	.548	1.61718	3.692		
Acrolein	.06594	.06086	.06213	.06236	.06422	.631	.06310	3.151		(Conc=400.0,800.0,2000.0)
1,1-Dichloroethene	1.07773	1.06668	1.11791	1.00783	1.03437	.660	1.06090	3.968	*	
Acetone	.10314	.10207	.09178	.09730	.10309	.647	.09948	4.955		(Conc=50.0,100.0,250.0,500.0)
tert-Butyl Alcohol	.03848	.03609	.03497	.03854	.04161	.697	.03794	6.765		(Conc=100.0,200.0,500.0,1000.0)
Carbon Disulfide	2.12092	2.07090	2.39320	2.03088	2.07239	.731	2.13926	6.801		
Methylene Chloride	.96417	.94298	.98491	.88779	.90495	.745	.93696	4.308		
Methyl tert-Butyl Ether	1.69427	1.72065	1.73497	1.73204	1.76368	.782	1.72912	1.453		
trans-1,2-Dichloroethene	1.09867	1.13641	1.22443	1.11726	1.14597	.794	1.14455	4.212		
Acrylonitrile	.09680	.09121	.09409	.10625	.11666	.768	.10101	10.312		(Conc=40.0,80.0,200.0,400.0)
Isopropyl Ether	2.25511	2.26144	2.38422	2.18372	2.23452	.860	2.26380	3.265		
1,1-Dichloroethane	1.29512	1.30665	1.35827	1.27158	1.31395	.862	1.30911	2.431	**	
Vinyl Acetate	.93746	.84545	1.14229	1.08640	1.16468	.869	1.03526	13.351		
2-Butanone	.17844	.15309	.16017	.16880	.19220	.930	.17054	9.021		(Conc=50.0,100.0,250.0,500.0)
cis-1,2-Dichloroethene	1.37059	1.36527	1.41049	1.34491	1.38978	.955	1.37621	1.813		
Chloroform	1.91348	1.74709	1.80491	1.79486	1.79135	.980	1.81034	3.413	*	
1,1,1-Trichloroethane	1.58909	1.63163	1.69671	1.59242	1.66044	1.039	1.63406	2.802		
Carbon Tetrachloride	1.43492	1.52587	1.58261	1.51852	1.51638	1.075	1.51566	3.478		
1,2-Dichloroethane-d4	.21909	.22562	.19448	.24575	.22412	.946	.22181	8.274		(Conc=50.0,50.0,50.0,50.0)
Benzene	.62547	.63632	.63480	.61600	.61846	.960	.62621	1.474		
1,2-Dichloroethane	.22848	.24776	.22589	.25353	.25333	.957	.24180	5.611		
Trichloroethene	.36939	.36939	.38710	.38257	.38025	1.041	.37774	2.121		
1,2-Dichloropropane	.42035	.43392	.41953	.43218	.42227	1.063	.42565	1.611	*	
Methyl Methacrylate	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	.46785	.48516	.47983	.50274	.50824	1.092	.48876	3.401		
1,4-Dioxane	.00182	.00190	.00164	.00207	.00208	1.095	.00190	9.712		(Conc=400.0,800.0,2000.0)

RF - Response Factor (Subscript is amount in ppb)

RRT - Average Relative Retention Time (RT Std/RT Istd)

RF - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

MRP
10/12

Initial Calibration Data
HSL Compounds

Case No: _____ Instrument ID: GC/MS Sys 1/A SOIL

Contractor: ANALab, Inc.

Calibration Date: 10/12/94

Contract No: NJOEP 12531

Minimum RF for SPCC is 0.3000 Maximum % RSD for CCC is 30.000%

Laboratory ID: >A4282 >A4283 >A4281 >A4284 >A4285

Compound	RF 10.00	RF 20.00	RF 50.00	RF 100.00	RF 250.00	RRT	RF	% RSD	CCC SPCC
----------	-------------	-------------	-------------	--------------	--------------	-----	----	-------	----------

2-Chloroethyl Vinyl Ether	.02347	.02284	.03557	.04868	.06033	1.136	.03818	42.628	
4-Methyl-2-pentanone	.12260	.12227	.10699	.13297	.14304	1.141	.12557	10.720	(Conc=50.0,100.0,250.0,50
trans-1,3-Dichloropropene	.29975	.30715	.32841	.34635	.35093	1.165	.32652	6.992	
Toluene-d8	.74088	.77815	.73479	.76642	.78583	1.199	.76122	2.961	(Conc=50.0,50.0,50.0,50.0
Toluene	1.00572	1.11201	1.11766	1.07112	1.03427	.860	1.08416	3.114	*
cis-1,3-Dichloropropene	.32517	.32789	.35872	.36715	.37257	.877	.35030	6.358	
1,1,2-Trichloroethane	.33348	.35201	.33205	.34605	.32774	.892	.33827	3.036	
2-Hexanone	.09458	.09711	.08819	.10692	.11156	.895	.09967	9.493	(Conc=50.0,100.0,250.0,50
Tetrachloroethylene	.58954	.61004	.62973	.60593	.57395	.924	.60104	3.628	
Dibromochloromethane	.67802	.72177	.69797	.74185	.73056	.940	.71403	3.613	
1,2-Dibromoethane	.56033	.59180	.58004	.64701	.63043	.960	.60192	5.965	
Chlorobenzene	.83146	.81818	.87786	.83913	.81683	1.003	.83669	2.967	**
Ethylbenzene	1.13753	1.18699	1.21689	1.22190	1.16094	1.011	1.18485	3.047	*
m/p-Xylene	.89924	.88258	.91285	.90203	.89615	1.019	.89857	1.216	(Conc=20.0,40.0,100.0,200
<i>o</i> -Xylene	1.04245	1.06996	1.06078	1.06626	1.04741	1.063	1.05737	1.130	
Styrene	.72729	.74702	.77737	.78598	.81260	1.066	.77005	4.345	
Bromoform	.46203	.47919	.50554	.57615	.57239	1.097	.51906	10.162	**
1,1,2,2-Tetrachloroethane	.45942	.49584	.46685	.51570	.51545	1.118	.49065	5.403	**
Bromofluorobenzene	.55772	.57533	.54985	.55476	.51671	1.126	.55087	3.681	(Conc=50.0,50.0,50.0,50.0
1,3-Dichlorobenzene	.64641	.62960	.65246	.72486	.77251	1.246	.68517	8.897	
1,4-Dichlorobenzene	.61582	.55078	.57239	.64437	.65453	1.258	.60758	7.402	
1,2-Dichlorobenzene	.56609	.55355	.56574	.67248	.72254	1.297	.61608	12.430	

RF - Response Factor (Subscript is amount in ppb)

RRT - Average Relative Retention Time (RT Std/RT Istd)

RF' - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**) MRP
10/12

4

ANALabs inc.
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

.ab File ID: >A4367

Inst. ID: A

BFB Injection Date: 10/14/94

BFB Injection Time: 1601

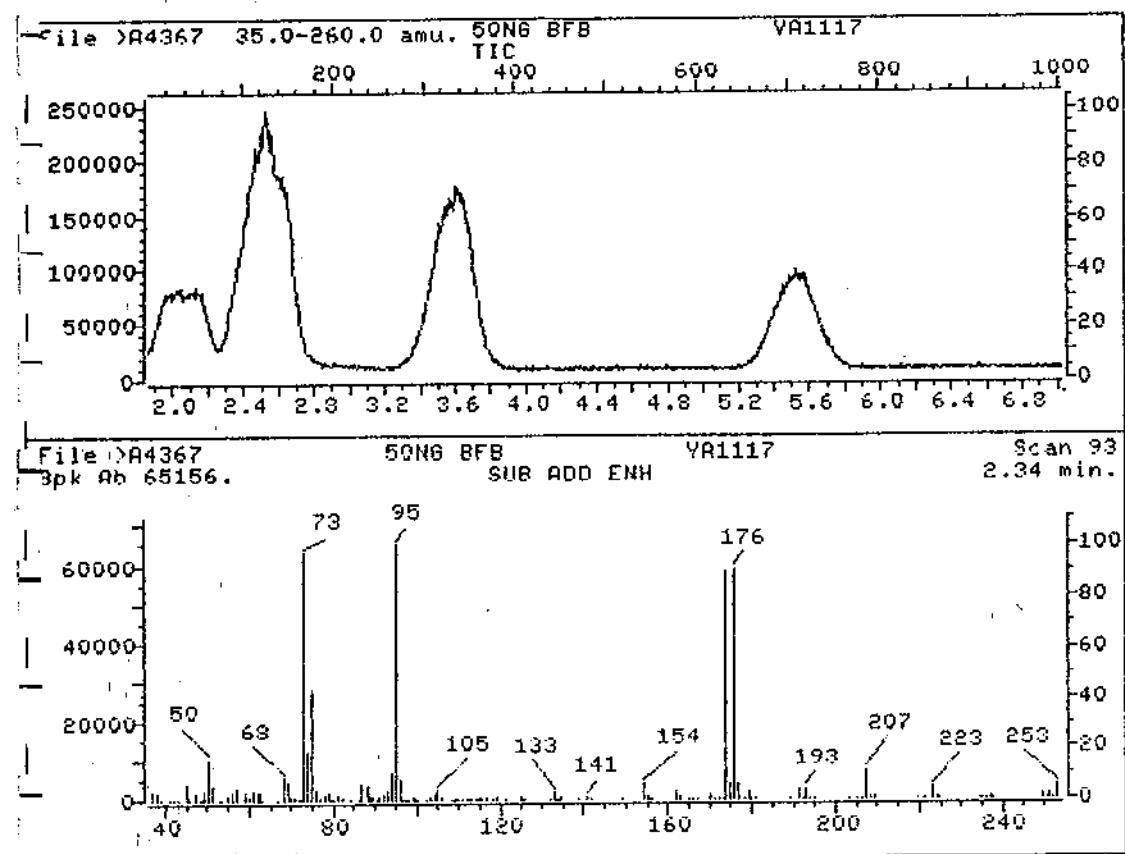
Analyst: J

GC/MS Run Batch: VA1117

m/z	Ion Abundance Criteria	% Relative Abundance		
		Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	15.47	15.47	Ok
75	30-60% of mass 95	42.68	42.68	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.71	7.71	Ok
173	Less than 2% of mass 174	.43	.48	Ok
174	Greater than 50% of mass 95	89.27	89.27	Ok
175	5-9% of mass 174	6.34	7.10	Ok
176	95-101% of mass 174	90.16	101.00	Ok
177	5-9% of mass 176	6.22	6.90	Ok

This tune applies to the following samples, MS, MSD, Blanks, and Standards:

ANALab	SAMPLE ID	GC/MS DATA FILE	DATE ANALYZED	TIME ANALYZED
1 VOA050		>A4368	10/14/94 1629	
2 QVBL:A4369✓		>A4369✓	10/14/94 1711	
3 94-10-113-1		>A4370	10/14/94 1751	
4 94-10-113-2		>A4371	10/14/94 1831	
5 94-10-113-3		>A4372	10/14/94 1912	
6 94-10-113-4		>A4373	10/14/94 1952	
7 94-10-113-5		>A4374	10/14/94 2033	
8 94-10-113-6		>A4375	10/14/94 2113	
9 94-10-113-7		>A4376	10/14/94 2154	
10 94-10-113-2MS		>A4377	10/14/94 2234	
11 94-10-113-2SD		>A4378	10/14/94 2315	
12 BLMS.A4379✓		>A4379✓	10/14/94 2355	
13 94-10-77-1		>A4380	10/15/94 0035	
14 94-10-77-2		>A4381	10/15/94 0116	
15 94-10-79-1		>A4382	10/15/94 0156	
16 94-10-79-4		>A4383	10/15/94 0237	
17 94-10-172-1✓		>A4384✓	10/15/94 0317	
18 94-10-172-2✓		>A4385✓	10/15/94 0358	
19 94-10-113-8		>A4386	10/15/94 0438	
20		24he AGB		
21				
22				
23				



A4367

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 10/14/94
 Contractor: ANALab, Inc. Time: 16:29
 Contract No: NJDEP 12531 Laboratory ID: >A4368
 Instrument ID: GC/MS Sys 1/A SDIL Initial Calibration Date: 10/12/94

Minimum RF for SPCC is 0.3000 Maximum % Diff for CCC is 25.00%

Compound	RF	RF	%Diff	CCC SPCC
Chloromethane	.42161	.43972	4.30	**
Vinyl Chloride	.51995	.53959	3.78	*
Bromomethane	.90488	.96186	6.30	
Chloroethane	.37154	.40547	9.13	
Trichlorofluoromethane	1.61718	1.69776	4.98	
Acrolein	.06310	.06023	4.55	(Conc=2000.00)
1,1-Dichloroethene	1.06090	1.07299	1.14	*
Acetone	.09948	.09382	5.68	(Conc=250.00)
tert-Butyl Alcohol	.03794	.03412	10.07	(Conc=500.00)
Carbon Disulfide	2.13926	2.22712	4.11	
Methylene Chloride	.93696	.93339	.38	
Methyl tert-Butyl Ether	1.72912	1.65746	4.14	
trans-1,2-Dichloroethene	1.14455	1.16153	1.48	
Acrylonitrile	.10101	.09768	3.29	(Conc=200.00)
Isopropyl Ether	2.26380	2.13496	5.69	
1,1-Dichloroethane	1.30911	1.29468	1.10	**
Vinyl Acetate	1.03526	1.04862	1.29	
2-Butanone	.17054	.15868	6.96	(Conc=250.00)
cis-1,2-Dichloroethene	1.37621	1.33874	2.72	
Chloroform	1.81034	1.75157	3.25	*
1,1,1-Trichloroethane	1.63406	1.63113	.18	
Carbon Tetrachloride	1.51566	1.47441	2.72	
1,2-Dichloroethane-d4	.22181	.20468	7.72	(Conc=50.00)
Benzene	.62621	.63004	6.61	
1,2-Dichloroethane	.24180	.22791	5.74	
Trichloroethene	.37774	.38785	2.68	
1,2-Dichloropropane	.42565	.41077	3.50	*
Methyl Methacrylate	-	-	-	
Bromodichloromethane	.48876	.47116	3.60	
1,4-Dioxane	.00190	.00177	7.06	(Conc=2000.00)
2-Chloroethyl Vinyl Ether	.03818	.03825	.18	
4-Methyl-2-pentanone	.12557	.11392	9.28	(Conc=250.00)

RF - Response Factor from daily standard file at 50.00 ppb

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**) 10/17/94

Continuing Calibration Check
HSL Compounds

Case No:

Calibration Date: 10/14/94

Contractor: ANALab, Inc.

Time: 16:29

Contract No: NJDEP 12531

Laboratory ID: >A4368

Instrument ID: GC/MS Sys 1/A SOIL

Initial Calibration Date: 10/12/94

Minimum RF for SPCC is 0.3000 Maximum % Diff for CCC is 25.00%

Compound	RF	RF	%Diff	CCC	SPCC
trans-1,3-Dichloropropene	.32652	.31340	4.02		
Toluene-d8	.76122	.76480	.47	(Conc=50.00)	
Toluene	1.08416	1.06814	1.48	*	
cis-1,3-Dichloropropene	.35030	.32319	7.74		
1,1,2-Trichloroethane	.33827	.32356	4.35		
2-Hexanone	.09967	.09405	5.64		(Conc=250.00)
Tetrachloroethylene	.60104	.58773	2.21		
Dibromochloromethane	.71403	.66602	6.72		
1,2-Dibromoethane	.60192	.56477	6.17		
Chlorobenzene	.83669	.81017	3.17	**	
Ethylbenzene	1.18485	1.14981	2.96	*	
m/p-Xylene	.89857	.79501	11.52		(Conc=100.00)
o-Xylene	1.05737	.98245	7.09		
Styrene	.77005	.72799	5.46		
Bromoform	.51906	.45761	11.84	**	
1,1,2,2-Tetrachloroethane	.49065	.47150	3.90	**	
Bromofluorobenzene	.55087	.52688	4.36		(Conc=50.00)
1,3-Dichlorobenzene	.68517	.62322	9.04		
1,4-Dichlorobenzene	.60758	.53906	11.28		
1,2-Dichlorobenzene	.61608	.53497	13.17		

10/17/94

RF - Response Factor from daily standard file at 50.00 ppb

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**) 37

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ANALab inc.

Lab File ID (Standard): >A4368

Date Analyzed: 10/14/94

Instrument ID: A

Time Analyzed: 16:29

	IS1		IS2		IS3			
	AREA #	RT	AREA #	RT	AREA #	RT		
12 HOUR STD	60672	11.20	237176	13.36	170904	18.81		
UPPER LIMIT	121354	12.20	474352	13.86	341808	19.31		
LOWER LIMIT	30339	11.20	118588	12.86	85452	18.31		
LAB SAMPLE NO.								
BLANK CHECK✓	61717	11.67	235161	13.38	162290	18.80		
2194-10-113-1	55372	11.68	227011	13.39	151753	18.81		
3194-10-113-2	26663*	11.67	101346*	13.37	67397*	18.82		
4194-10-113-3	51631	11.68	208307	13.37	143266	18.81		
5194-10-113-4	43105	11.69	167149	13.38	114634	18.81		
6194-10-113-5	0	0.00	0	0.00	0	0.00		
7194-10-113-6	38540	11.67	147342	13.39	104062	18.81		
8194-10-113-7	46527	11.67	185887	13.38	123740	18.79		
9194-10-113-2S1	39850	11.69	118825	13.38	103088	18.80		
10194-10-113-2S1	29667*	11.68	29932*	13.38	73155*	18.80		
11 BLANKSPIKE ✓	44275	11.70	131867	13.39	112503	18.81		
12 94-10-77-1	37552	11.70	85941*	13.40	61570*	18.80		
13 94-10-77-2	5946*	11.69	12211*	13.39	0*	0.00		
14 94-10-79-1	24774*	11.69	49858*	13.39	48688*	18.80		
15 94-10-79-4	52428	11.70	195660	13.38	125530	18.82		
16 94-10-172-1✓	54468	11.69	225538	13.38	150908	18.81		
17 94-10-172-2✓	50889	11.69	208030	13.38	138853	18.80		
18 94-10-113-8	16580*	11.68	60121*	13.39	39863*	18.80		
19								
20								
21								
22								

Conc.

IS1 = UPPER LIMIT = + 100%
 IS2 = of internal standard area.
 IS3 = LOWER LIMIT = - 50%

of internal standard area.

Column used to flag internal standard area values with an asterisk

6

ANALabs inc.
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

ab File ID: >A4390

Inst. ID: A

PFB Injection Date: 10/15/94

BFB Injection Time: 1132

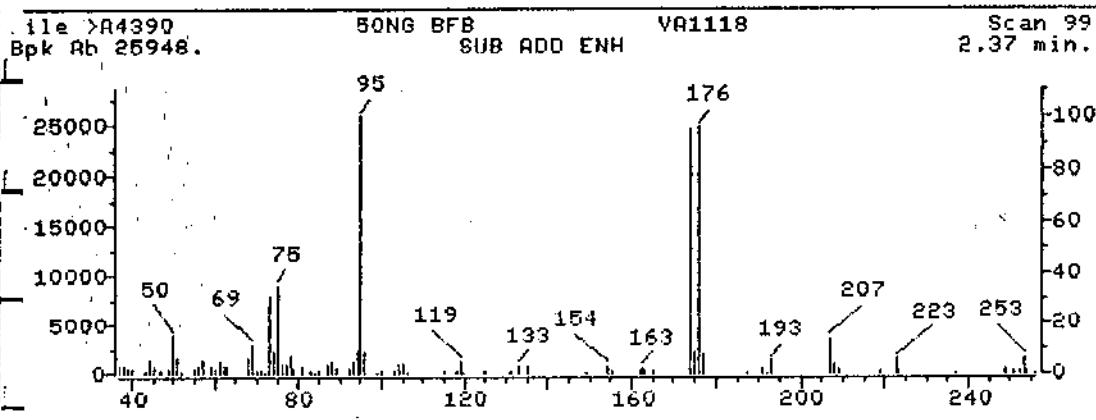
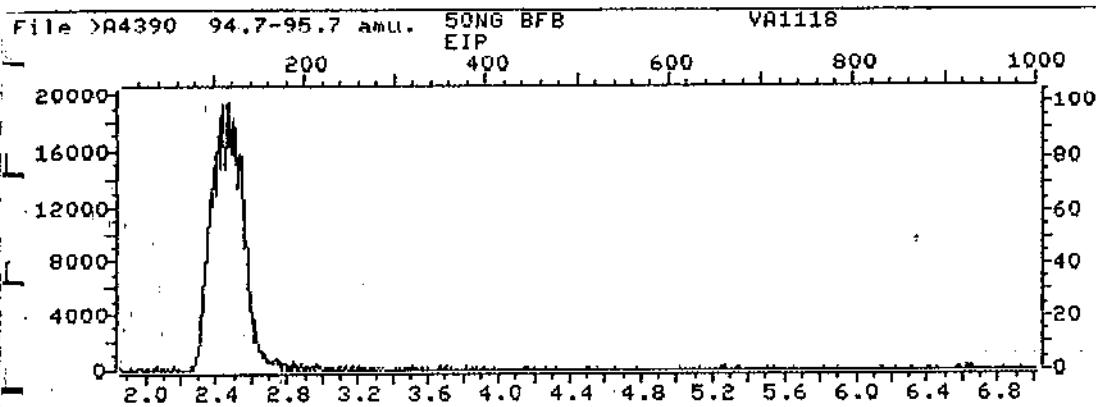
Analyst: JH

GC/MS Run Batch: VA1118

m/z	Ion Abundance Criteria	% Relative Abundance		
		Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	15.06	15.06	Ok
75	30-60% of mass 95	34.89	34.89	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	8.73	8.73	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	95.35	95.35	Ok
175	5-9% of mass 174	8.49	8.90	Ok
176	95-101% of mass 174	95.56	100.22	Ok
177	5-9% of mass 176	8.03	8.40	Ok

This tune applies to the following samples, MS, MSD, Blanks, and Standards:

	ANALAB	SAMPLE ID	GC/MS DATA FILE	DATE ANALYZED	TIME ANALYZED
1	VOA050		>A4391	10/15/94	1149
2	QVBL:A4392 ✓		>A4392 ✓	10/15/94	1230
3	94-10-113-8		>A4393	10/15/94	1310
4	94-10-113-9		>A4394	10/15/94	1351
5	94-10-027-4		>A4395	10/15/94	1431
6	94-10-044-4		>A4396	10/15/94	1511
7	94-10-090-1		>A4397	10/15/94	1552
8	94-10-090-2		>A4398	10/15/94	1632
9	94-10-027-4MS ✓		>A4399 ✓	10/15/94	1713
10	94-10-027-4SD ✓		>A4400 ✓	10/15/94	1755
11	BLMS.A4401 ✓		>A4401 ✓	10/15/94	1836
12	94-10-99-1		>A4402	10/15/94	1917
13	94-10-99-3		>A4403	10/15/94	1959
14	94-10-101-1		>A4404	10/15/94	2040
15	94-10-112-1		>A4405	10/15/94	2121
16	94-10-112-2		>A4406	10/15/94	2203
17	94-10-112-3		>A4407	10/15/94	2244
18					
19					
20					
21					
22					
23					



A4390

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 10/15/94

Contractor: ANALab, Inc. Time: 11:49

Contract No: NJDEP 12531 Laboratory ID: >A4391 ✓

Instrument ID: GC/MS Sys 1/A SOIL Initial Calibration Date: 10/12/94

Minimum RF for SPCC is 0.3000 Maximum % Diff for CCC is 25.00%

Compound	RF	RF	%Diff	CCC SPCC
Chloromethane	.42161	.45116	7.01	**
Vinyl Chloride	.51995	.55948	7.60	*
Bromoethane	.90488	.94423	4.35	
Chloroethane	.37154	.40424	8.80	
Trichlorofluoromethane	1.61718	1.59232	1.54	
Acrolein	.06310	.05962	5.51	(Conc=2000.00)
1,1-Dichloroethene	1.06090	1.03199	2.73	*
Acetone	.09948	.08467	14.89	(Conc=250.00)
tert-Butyl Alcohol	.03794	.03440	9.33	(Conc=500.00)
Carbon Disulfide	2.13926	2.21947	3.75	
Methylene Chloride	.93696	.95170	1.57	
Methyl tert-Butyl Ether	1.72912	1.66631	3.63	
trans-1,2-Dichloroethene	1.14455	1.13575	.77	
Acrylonitrile	.10101	.09495	5.99	(Conc=200.00)
Isopropyl Ether	2.26380	2.19609	2.99	
1,1-Dichloroethane	1.30911	1.25630	4.03	**
Vinyl Acetate	1.03526	.98714	4.65	
Z-Butanone	.17054	.16210	4.95	(Conc=250.00)
cis-1,2-Dichloroethene	1.37621	1.34862	2.00	
Chloroform	1.81034	1.71113	5.48	*
1,1,1-Trichloroethane	1.63406	1.55713	4.71	
Carbon Tetrachloride	1.51566	1.42469	6.00	
1,2-Dichloroethane-d4	.22181	.20196	8.95	(Conc=50.00)
Benzene	.62621	.63478	1.37	
1,2-Dichloroethane	.24180	.21520	11.00	
Trichloroethene	.37774	.37294	1.27	
1,2-Dichloropropane	.42565	.41201	3.20	*
Methyl Methacrylate	-	-	-	
Bromodichloromethane	.48876	.46524	4.81	
1,4-Dioxane	.00190	.00175	8.14	(Conc=2000.00)
2-Chloroethyl Vinyl Ether	.03818	.03516	7.92	
4-Methyl-2-pentanone	.12557	.10936	12.91	(Conc=250.00)

MRP
10/17

RF - Response Factor from daily standard file at 50.00 ppb

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**) ✓

Continuing Calibration Check
HSL Compounds

Case No: _____ Calibration Date: 10/15/94
 Contractor: ANALab, Inc. Time: 11:49
 Contract No: NJDEP 12531 Laboratory ID: >A4391 ✓
 Instrument ID: GC/MS Sys 1/A SOIL Initial Calibration Date: 10/12/94

Minimum RF for SPCC is 0.3000 Maximum % Diff for CCC is 25.00%

Compound	RF	RF	%Diff	CCC	SPCC
trans-1,3-Dichloropropene	.32652	.31421	3.77		
Toluene-d8	.76122	.73834	3.00	(Conc=50.00)	
Toluene	1.08416	.99984	7.78 *		
cis-1,3-Dichloropropene	.35030	.32386	7.55		
1,1,2-Trichloroethane	.33827	.31533	6.78		
2-Hexanone	.09967	.08802	11.69	(Conc=250.00)	
Tetrachloroethene	.60104	.59148	1.59		
Dibromochloromethane	.71403	.64138	10.18		
1,2-Dibromoethane	.60192	.54455	9.53		
Chlorobenzene	.03669	.00683	3.57 **		
Ethylbenzene	1.18485	1.09833	7.30 *		
m/p-Xylene	.89857	.84742	5.69	(Conc=100.00)	
o-Xylene	1.05737	.95351	9.82		
Styrene	.72005	.73956	3.96		
Bromoform	.51906	.46186	11.02	**	
1,1,2,2-Tetrachloroethane	.49065	.44581	9.14	**	
Bromofluorobenzene	.55087	.54763	.59	(Conc=50.00)	
1,3-Dichlorobenzene	.68517	.62604	8.63		
1,4-Dichlorobenzene	.60758	.53824	11.41		
1,2-Dichlorobenzene	.61608	.57463	6.73		

MPP
10/17

RF - Response Factor from daily standard file at 50.00 ppb

RF - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**) 42

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ANALab inc.

Lab File ID (Standard): >A4391

Date Analyzed: 10/15/94

Instrument ID: A

Time Analyzed: 11:49

	IS1 AREA #	IS2 RT		IS3 AREA #	RT		IS1 AREA #	IS2 RT
12 HOUR STD	68120	11.69		271840	13.38		196462	18.81
UPPER LIMIT	136240	12.19		543680	13.88		392924	19.31
LOWER LIMIT	34060	11.19		135920	12.88		98231	18.31
LAB SAMPLE NO.								
1 BLANK CHECK ✓	60860	11.68		238206	13.38		160526	18.80
2 94-10-113-8	60068	11.68		234237	13.37		160421	18.80
3 94-10-113-9	0	0.00		0	0.00		0	0.00
4 94-10-027-4	53667	11.68		209699	13.37		145467	18.80
5 94-10-044-4	46870	11.67		177330	13.38		109418	18.80
6 94-10-090-1	42679	11.69		161098	13.37		96318*	18.81
7 94-10-090-2	53941	11.70		206012	13.38		122610	18.81
8 94-10-027-4S	54563	11.68		215998	13.38		160027	18.81
9 94-10-027-4S	51194	11.67		199480	13.38		147866	18.81
10 BLANKSPIKE ✓	32069*	11.68		120371*	13.38		87110*	18.81
11 94-10-99-1	56315	11.68		210571	13.38		152393	18.81
12 94-10-99-3	37255	11.69		91078*	13.38		31526*	18.80
13 94-10-101-1	10557*	11.68		35640*	13.38		24158*	18.80
14 94-10-112-1	0*	0.00		0*	0.00		0*	0.00
15 94-10-112-2	58014	11.69		221123	13.38		163138	18.81
16 94-10-112-3	63214	11.70		246328	13.38		171966	18.82
17								
18								
19								
20								
21								
22								

Conc.

IS1 = UPPER LIMIT = + 100%
 IS2 = of internal standard area.
 IS3 = LOWER LIMIT = - 50%

of internal standard area.

Column used to flag internal standard area values with an asterisk

Page 1 of 1

ANALab INC.

205 Campus Plaza 1, Raritan Center, Edison, NJ 08837, Tel: (908) 225-4111, Fax: (908) 225-4110

GC INITIAL AND CONTINUING CALIBRATION SUMMARIES

GC EXTRACTABLE ORGANICS

AA

ANALAB INC.

205 Campus Plaza 1, Roman Center, Edison, NJ 08837, Tel (908) 225-4111, Fax (908) 225-4111

P C B 'S SEQUENCE & STANDARDS EVALUATION SUMMARY Evaluation of Retention Time Shift for Dibutylchloroendate (DBC)

Instrument ID: P & E 8500

Primary or Confirmation

Analysis Dates From 10/11/94 to 10/22/94.
MEAN DBC RT from Init.Calib. 47.63 min.

GC Column ID: Packed, 1.5 μ SP2250,
1.95 μ SP2501, 100/120 Supelcoport
6'x4mm Glass.

Page 1 of 1.

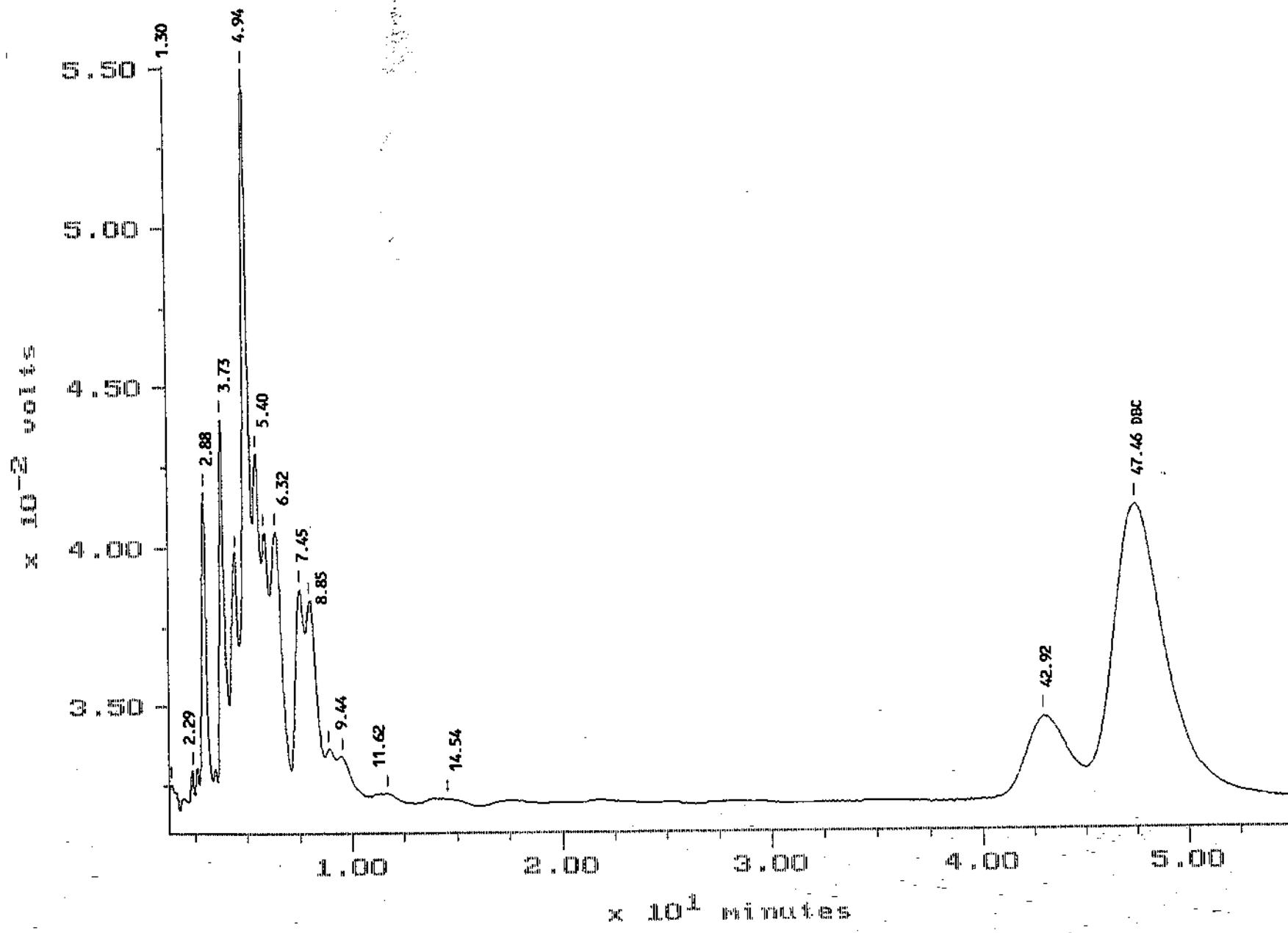
LAB SAMPLE NO.	GC DATA FILE	DATE ANALYZED	TIME ANALYZED	% DIFF
01 A1016 500 PPB	P0101101	10/11/94	1307	0.36
02 A1221 500 PPB	02		1402	0.25
03 A1232 500 PPB	03		1457	0.44
04 A1242 500 PPB	04		1553	0.02
05 A1248 100 PPB	05		1647	0.15
06 A1248 250 PPB	06		1742	0.06
07 A1248 500 PPB	07		1837	0.17
08 A1248 750 PPB	08		1932	0.17
09 A1248 1000 PPB	09		2038	0.02
10 A1254 100 PPB	10		2123	0.04
11 A1254 250 PPB	11		2208	0.10
12 A1254 500 PPB	12	↓	2313	0.08
13 A1254 750 PPB	13	10/21/94	0008	0.15
14 A1254 1000 PPB	14		0103	0.17
15 A1260 100 PPB	15		0155	0.08
16 A1260 250 PPB	16		0253	0.25
17 A1260 500 PPB	17		0348	0.08
18 A1260 750 PPB	18	↓	0449	0.03
19 A1260 1000 PPB	19	↓	0539	0.08
20 A1248 500 PPB	P0102009	10/20/94	2257	0.42
21 A1254 500 PPB	10	↓	2352	0.23
22 A1260 500 PPB	11	↓	0047	0.21
23 A1248 500 PPB	P0102101	10/22/94	0050	0.10
24 A1260 500 PPB	03	↓	0249	0.06
25 94100172-1	P0102035	10/21/94	2309	0.06
26 94100172-2	36	10/22/94	0004	0.35
27 101494416301BLK	P0102122	10/22/94	2016	0.25
28 101494416301SPF	23		2111	0.25
29 G4100178-11MS	24		2206	0.10
30 G4100178-11MS	25	↓	2302	0.10
31				
32				
33				
34				
35				
36				
37				
38				

NOTE: * Values outside of QC Limit, (2.0 * for Packed Column, and 0.3 * for Capillary Columns)

Sample: A1016 500 PPB channel: detector 1
Acquired: 11-OCT-94 13:07 Method: C:\MAX\DATA2\PCB10-11
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPELCOPORT 6FT X 4mm ID 5ul A/S INJ

Filename: PC101101

Operator: MAB



MAXIMA 820 CUSTOM REPORT

Printed: 12-OCT-1994 14:27:42

SAMPLE: A1016 500 PPB

#1 in Method: A1260 CALIBRATION PEB500
Acquired: 11-OCT-1994 13:07

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: UNKN

Instrument: Instrument 2

Filename: PC101101

Index: Disk

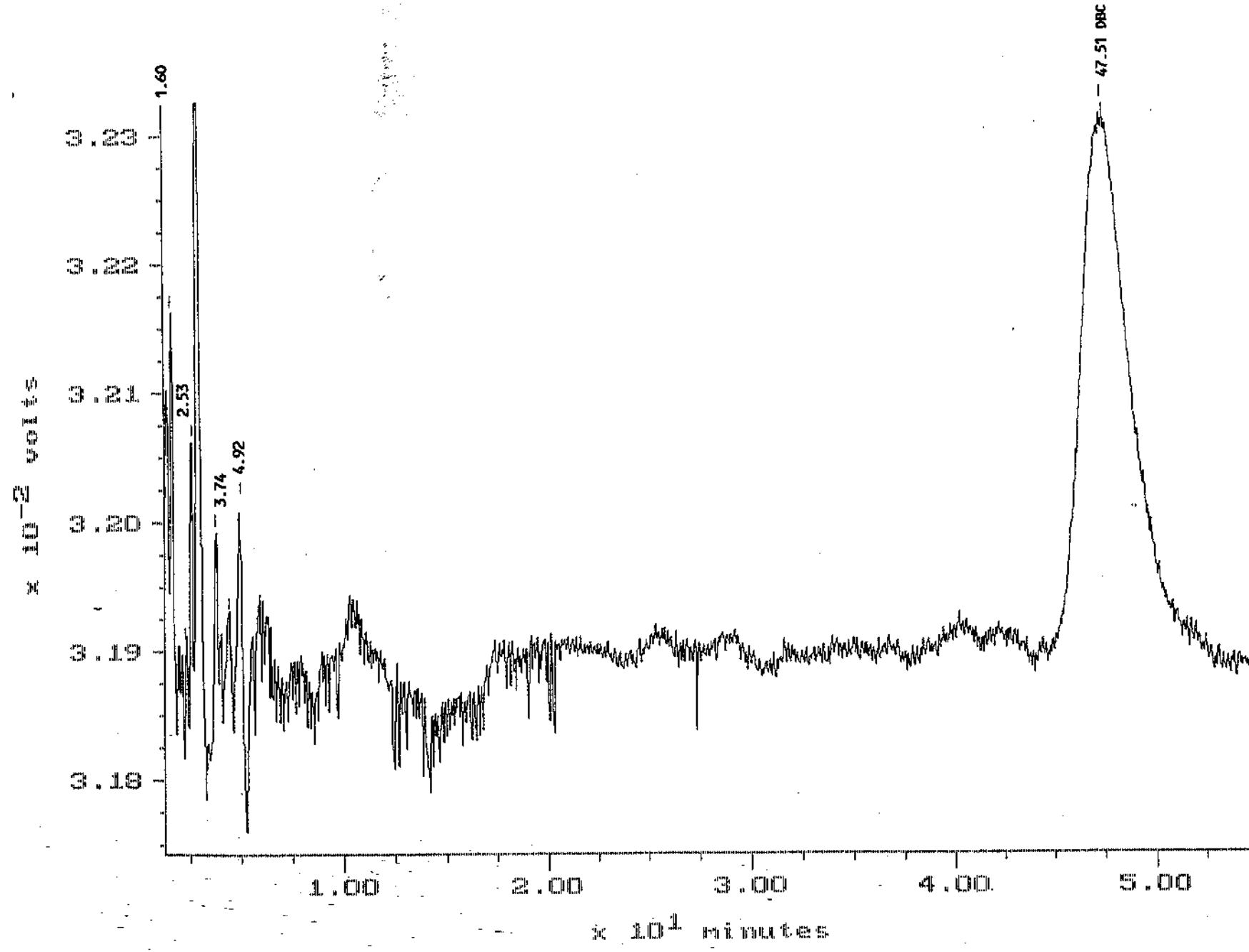
DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		1.303	DP	548	8201	0.34				
2		2.293	PP	870	6766	0.28				
3		2.883	PP	9330	135627	5.57				
4		3.733	PB	10350	143358	5.89				
5		4.373	BB	3673	53771	2.21				
6		4.940	BP	15992	247626	10.17				
7		5.403	PP	2654	31298	1.29				
8		5.787	PP	1290	14739	0.61				
9		6.320	PB	3629	91522	3.76				
10		7.453	BP	2954	56734	2.33				
11		7.957	PP	2076	43755	1.80				
12		8.850	PP	283	4719	0.19				
13		9.443	PP	301	1807	0.07				
14		11.617	PB	207	12462	0.51				
15		14.540	BB	66	3984	0.16				
16		42.917	BB	2032	236255	9.71				
17	6	47.463	BB	8427	1341736	55.12	EXT AREA		268.63!!	DBC
TOTAL				64683	2434359				268.63!!	

!! Result calculation based on peak response more than 10% outside of calibration range.

Sample: A1221 500 PPB Channel: detector 1
Acquired: 11-OCT-94 14:02 Method: C:\MAX\DATA2\PC810-11
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPELCOPORT 6FT X 4mm ID Sul A/S INJ

Filename: PC101102
Operator: MAB



MAXIMA 820 CUSTOM REPORT

Printed: 12-OCT-1994 14:29:50

SAMPLE: A1221 500 PPB

#2 in Method: A1260 CALIBRATION PE8500

Acquired: 11-OCT-1994 14:02

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: UNKN

Instrument: Instrument 2

Filename: PC101102

Index: Disk

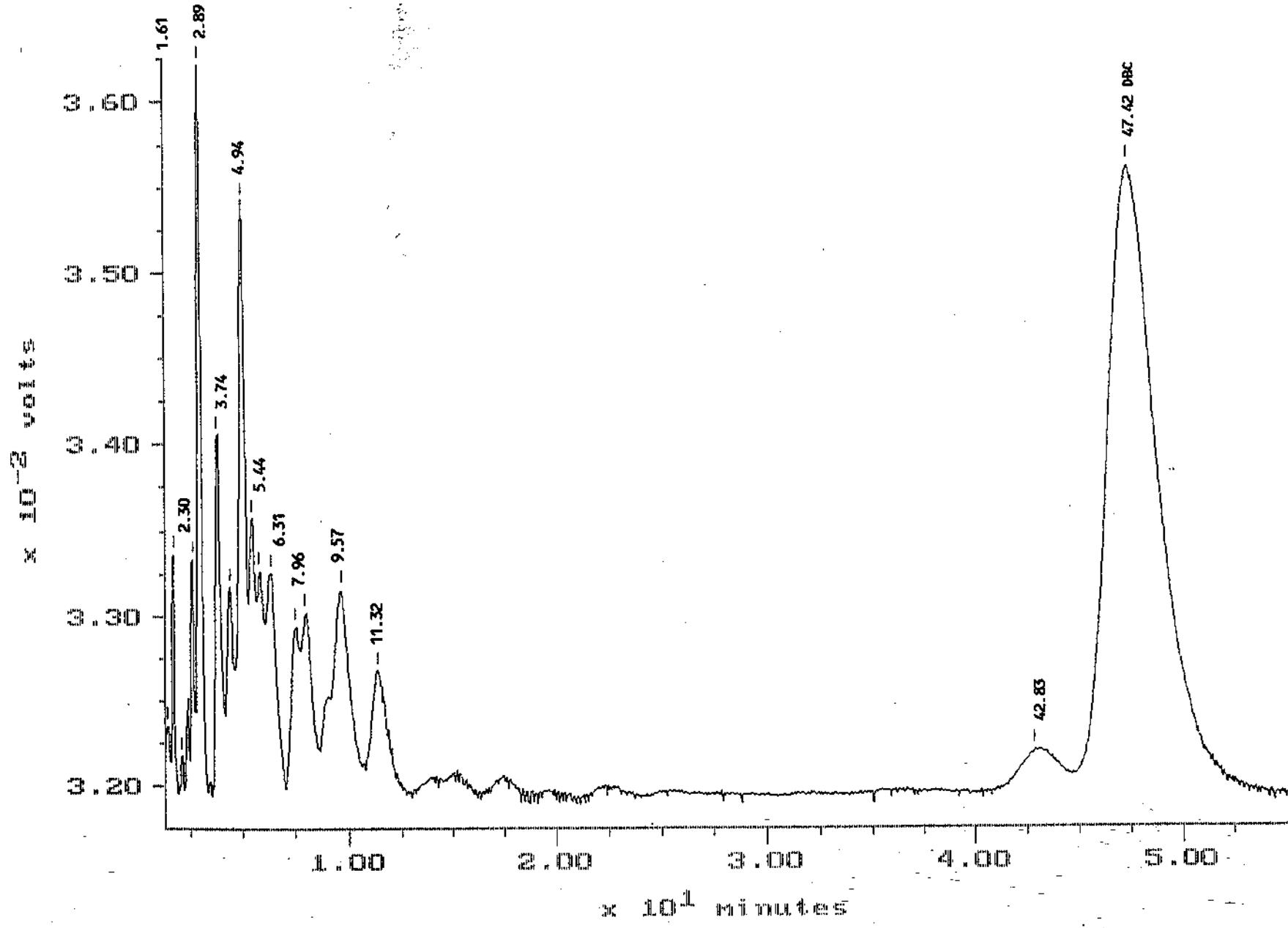
DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		1.597	BB	197	1110	1.54				
2		2.280	BB	44	232	0.32				
3		2.530	BB	167	1222	1.69				
4		3.740	BB	144	1787	2.48				
5		4.353	BB	57	743	1.03				
6		4.920	BB	153	1724	2.39				
7	6	47.513	BB	412	65274	90.54	EXT	AREA	6.09!!	DBC
TOTAL				1175	72093				6.09!!	

!! Result calculation based on peak response more than 10% outside of calibration range.

Sample: A1232 500 PP8 channel: detector 1
Acquired: 11-OCT-94 14:57 Method: C:\MAX\DATA2\PCB10-11
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPERCOPT 6FT X 4mm ID 5UL A/S THU

Filename: PC101103
Operator: HAB



MAXIMA 820 CUSTOM REPORT

Printed: 12-OCT-1994 14:32:34

SAMPLE: A1232 500 PPB

#3 in Method: A1260 CALIBRATION PE8500

Acquired: 11-OCT-1994 14:57

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: UNKN

Instrument: Instrument 2

Filename: PC101103

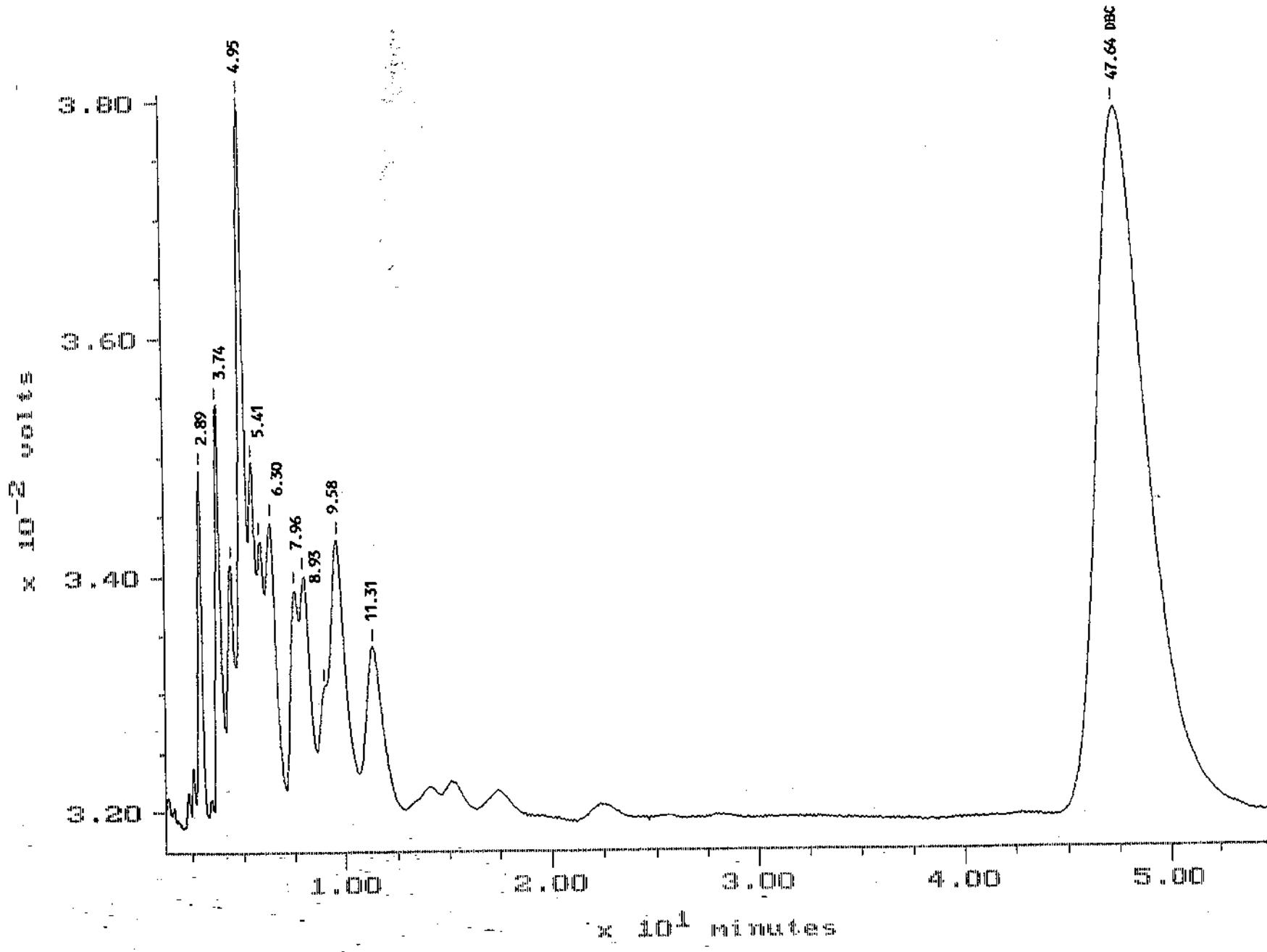
Index: Disk

DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		1.317	DP	395	5103	0.60				
2		1.607	PB	1395	10938	1.28				
3		2.027	BP	190	1237	0.14				
4		2.297	PP	312	2413	0.28				
5		2.530	PP	1032	8150	0.95				
6		2.890	PB	3935	50450	5.89				
7		3.743	BB	1927	29380	3.43				
8		4.373	BB	578	7688	0.90				
9		4.937	BP	2523	39213	4.58				
10		5.437	PP	497	6339	0.74				
11		5.797	PP	227	2564	0.30				
12		6.313	PB	561	13313	1.55				
13		7.497	BP	388	7919	0.92				
14		7.960	PP	414	9673	1.13				
15		9.567	PB	993	50830	5.93				
16		11.317	BB	549	23404	2.73				
17		42.830	BP	165	12231	1.43				
18	6	47.417	PB	3532	575612	67.21	EXT AREA		111.05	DBC
TOTAL				19612	856458				111.05	

Sample: A1242 500 PPB Channel: detector 1
Acquired: 11-OCT-94 15:52 Method: C:\MAX\DATA2\PCB0-11
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPELCOPORT 6FT X 4mm ID 5ul A/S TIN

Filename: PC101104
Operator: MAB



MAXIMA 820 CUSTOM REPORT

Printed: 12-OCT-1994 14:34:30

SAMPLE: A1242 500 PPB

#4 in Method: A1260 CALIBRATION PE8500

Acquired: 11-OCT-1994 15:52

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: UNKN

Instrument: Instrument 2

Filename: PC101104

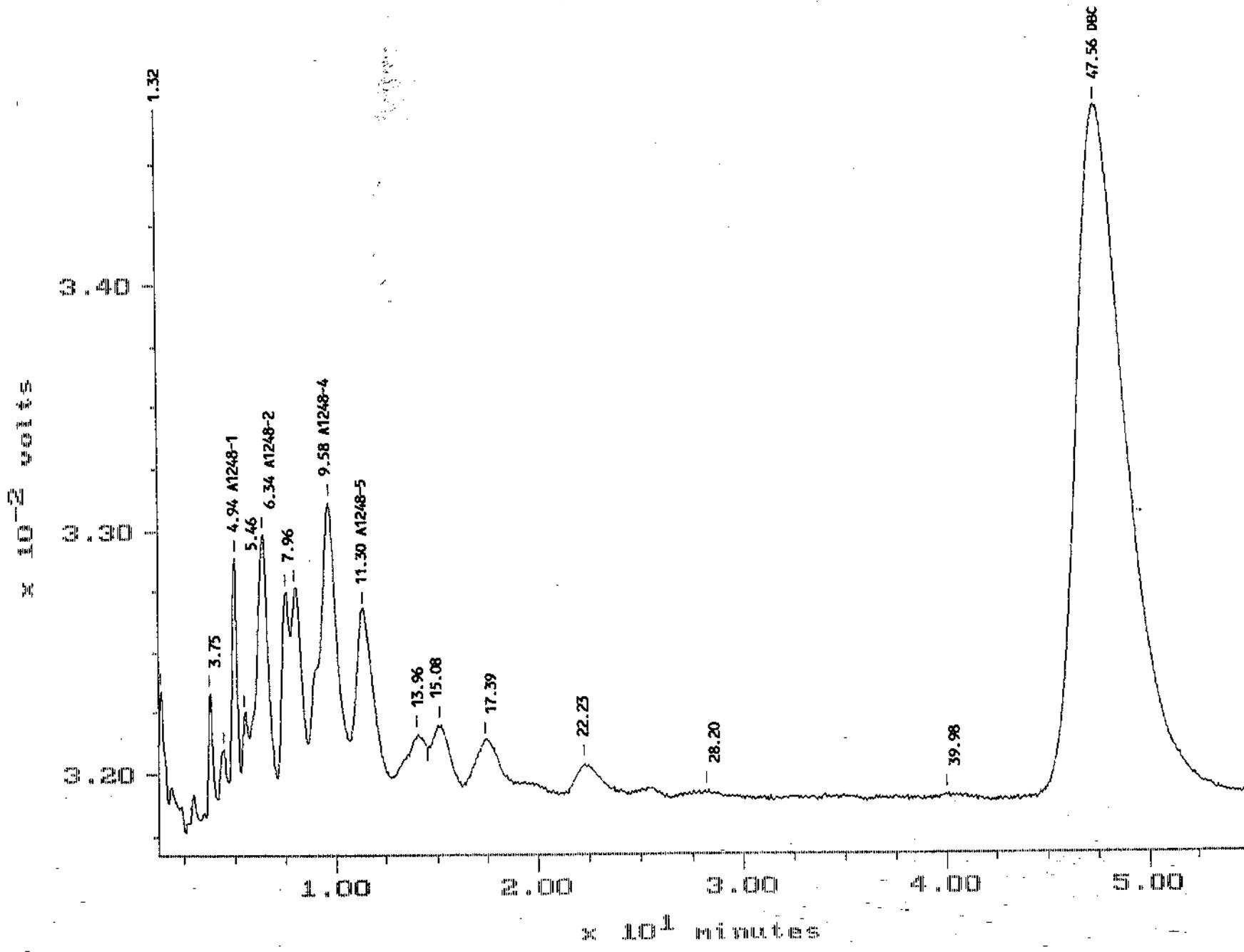
Index: Disk

DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		2.887	BB	2840	36559	2.85				
2		3.743	BP	3150	46444	3.62				
3		4.360	PB	1140	16837	1.31				
4		4.953	BP	4201	67386	5.25				
5		5.413	PP	775	9265	0.72				
6		5.803	PP	346	3805	0.30				
7		6.303	PB	1081	26942	2.10				
8		7.477	BP	749	14765	1.15				
9		7.960	PB	710	15655	1.22				
10		8.933	BP	99	1769	0.14				
11		9.583	PB	1480	56570	4.40				
12		11.313	BB	1129	53814	4.19				
13	6	47.637	BB	5757	934539	72.76	EXT	AREA	184.88	DBC
TOTAL				23456	1284349				184.88	

Sample: A1248 100 PPB channel: detector 1
Acquired: 11-OCT-94 16:47 Method: C:\MAX\DATA2\PCB10-11
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPERCOPORT 6FT X 4mm ID 5ul A/S INJ

Filename: PC101105
Operator: MAB



MAXIMA 820 CUSTOM REPORT

Printed: 13-OCT-1994 8:16:03

SAMPLE: A1248 100 PPB

#1 in Method: A1260 CALIBRATION PE8500

Acquired: 11-OCT-1994 16:47

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: STND

Instrument: Instrument 2

Filename: PC101105

Index: Disk

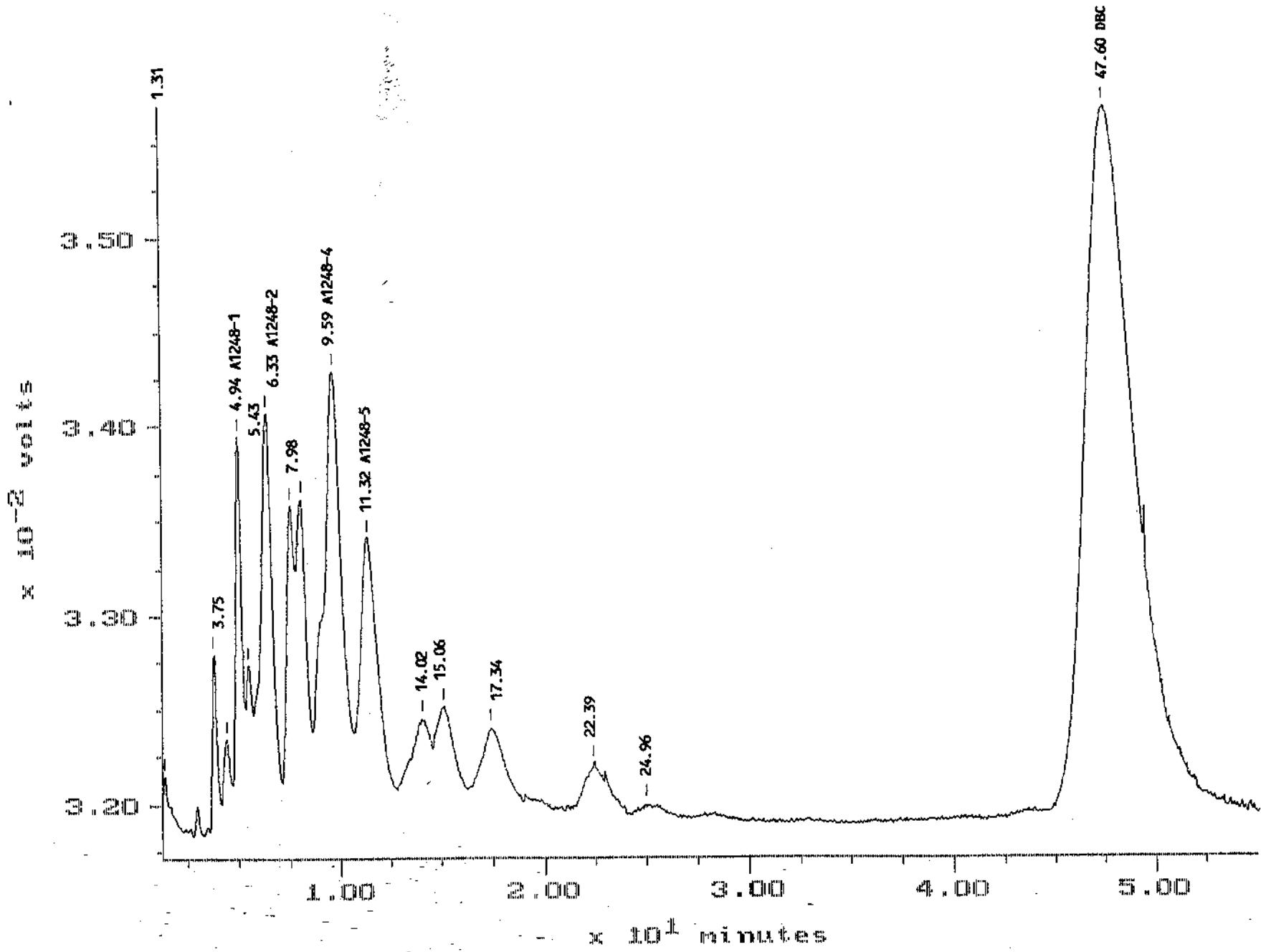
DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		1.320	DB	546	13903	3.07				
2		3.747	BB	451	5547	1.22				
3		4.340	BB	153	2420	0.53				
4	1	4.943	BB	753	9639	2.13	EXT	AREA	100.00	A1248-1
5		5.457	BB	156	2000	0.44				
6	2	6.343	BB	767	20512	4.53	EXT	AREA	100.00	A1248-2
7	3	7.483	BP	385	7553	1.67	EXT	AREA	100.00	A1248-3
8		7.963	PB	339	8093	1.79				
9	4	9.583	BB	768	29173	6.44	EXT	AREA	100.00	A1248-4
10	5	11.297	BB	576	28513	6.30	EXT	AREA	100.00	A1248-5
11		13.960	BP	128	6537	1.44				
12		15.083	PB	183	9666	2.13				
13		17.390	BB	175	12263	2.71				
14		22.233	BB	116	8341	1.84				
15		28.200	BB	34	3142	0.69				
16		39.983	BB	36	6710	1.48				
17	6	47.557	BB	2156	278918	61.58	EXT	AREA	20.00	DBC
TOTAL				7721	452930				520.00	

Sample: A1248 250 PPB channel: detector 1
Acquired: 11-OCT-94 17:42 Method: C:\MAX\DATA2\PCB10-11
Comments: PE8300 1.5%SP2250/1.95%SI2401 SUPELCOPORT 6FT X 4mm ID 5µl A/S INJ

Filename: PC101106

Operator: NAB



MAXIMA 820 CUSTOM REPORT

Printed: 13-OCT-1994 8:16:19

SAMPLE: A1248 250 PPB

#2 in Method: A1260 CALIBRATION PE8500

Acquired: 11-OCT-1994 17:42

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: STND

Instrument: Instrument 2

Filename: PC101106

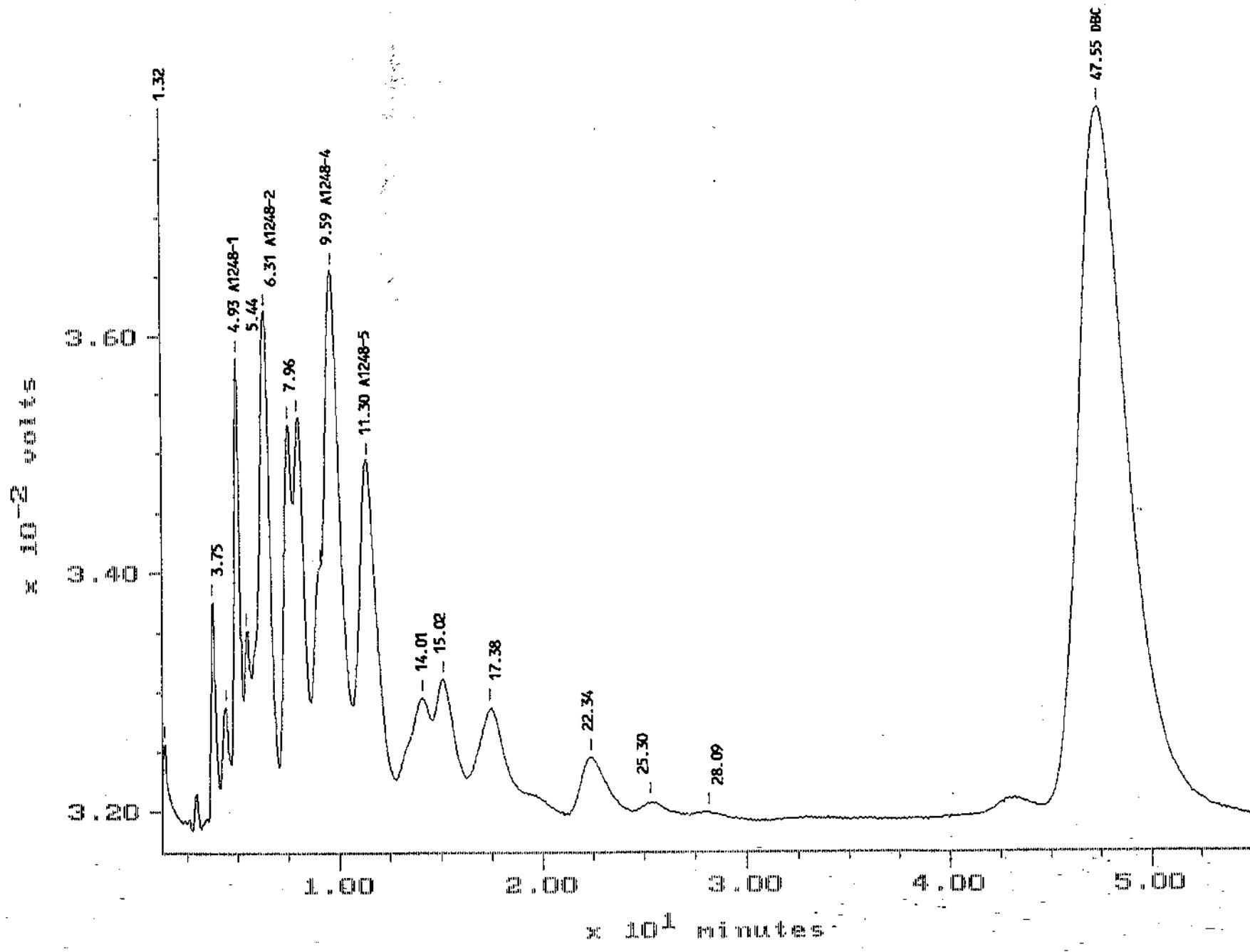
Index: Disk

DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		1.313	DB	312	9090	0.96				
2		3.747	BP	870	12272	1.29				
3		4.340	PB	282	4243	0.45				
4	1	4.937	BB	1585	24108	2.53	EXT	AREA	250.00	A1248-1
5		5.427	BB	241	2916	0.31				
6	2	6.327	BB	1637	48136	5.06	EXT	AREA	250.00	A1248-2
7	3	7.463	BP	785	14805	1.56	EXT	AREA	250.00	A1248-3
8		7.983	PB	659	15312	1.61				
9	4	9.590	BB	1505	58462	6.14	EXT	AREA	250.00	A1248-4
10	5	11.317	BB	1107	55624	5.85	EXT	AREA	250.00	A1248-5
11		14.020	BB	203	9048	0.95				
12		15.057	BB	291	13686	1.44				
13		17.337	BB	346	24462	2.57				
14		22.390	BB	235	17060	1.79				
15		24.963	BB	64	4356	0.46				
16	6	47.600	BB	3702	638051	67.05	EXT	AREA	50.00	DBC
TOTAL				13822	951631				1300.00	

Sample: A1248 500 PPB channel: detector 1
Acquired: 11-OCT-94 18:37 Method: C:\MAX\DATA2\PCB10-11
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPERCOPORT 6FT X 4mm ID Sut A/S INJ

Filename: PC101107
Operator: MAB



MAXIMA 820 CUSTOM REPORT

Printed: 13-OCT-1994 8:16:37

SAMPLE: A1248 500 PPB

#3 in Method: A1260 CALIBRATION PE8500

Acquired: 11-OCT-1994 18:37

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: STND

Instrument: Instrument 2

Filename: PC101107

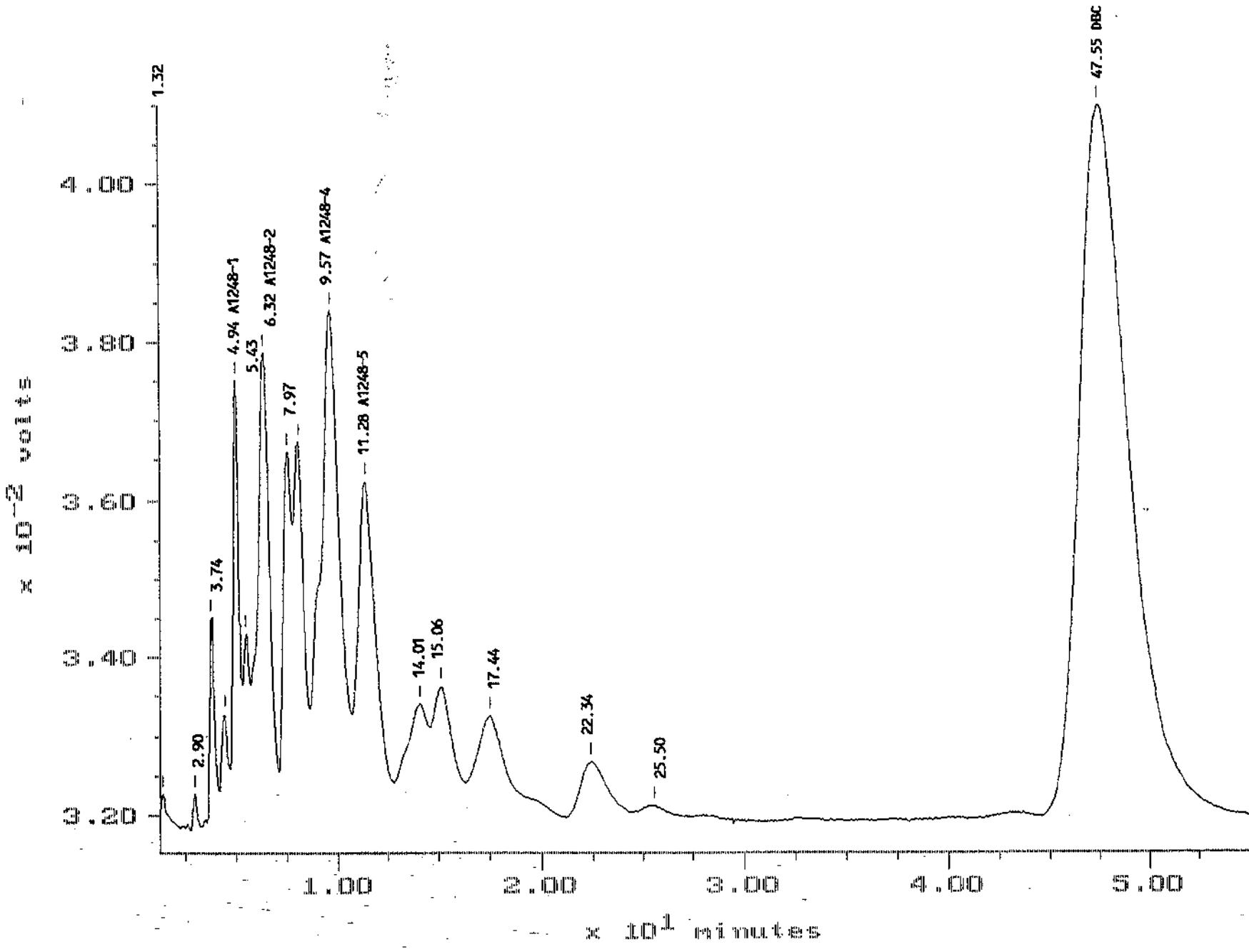
Index: Disk

DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		1.320	DB	719	18860	1.17				
2		3.747	BP	1718	24134	1.50				
3		4.360	PB	582	9187	0.57				
4	1	4.933	BB	3130	48173	2.99	EXT	AREA	500.00	A1248-1
5		5.440	BB	434	4914	0.30				
6	2	6.310	BB	3133	92326	5.73	EXT	AREA	500.00	A1248-2
7	3	7.460	BB	1511	29459	1.83	EXT	AREA	500.00	A1248-3
8		7.963	BB	1256	29226	1.81				
9		8.997	BP	101	3841	0.24				
10	4	9.590	PB	2904	114563	7.10	EXT	AREA	500.00	A1248-4
11	5	11.300	BB	2239	113825	7.06	EXT	AREA	500.00	A1248-5
12		14.007	BP	334	16391	1.02				
13		15.020	PP	501	22578	1.40				
14		17.383	PB	641	44948	2.79				
15		22.337	BB	471	38394	2.38				
16		25.297	BB	85	4996	0.31				
17		28.093	BB	37	1935	0.12				
18	6	47.553	BB	5850	994719	61.69	EXT	AREA	100.00	DBC
TOTAL				25644	1612469				2600.00	

Sample: A1248 750 PPB Channel: detector 1
Acquired: 11-OCT-94 19:32 Method: C:\MAX\DATA2\PCB10-11
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPERCOFORT 6FT X 4mm ID 5ul A/S INJ

Filenumber: PC101108
Operator: HAB



MAXIMA 820 CUSTOM REPORT

Printed: 13-OCT-1994 8:16:54

SAMPLE: A1248 750 PPB

#4 in Method: A1260 CALIBRATION PE8500

Acquired: 11-OCT-1994 19:32

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: STND

Instrument: Instrument 2

Filename: PC101108

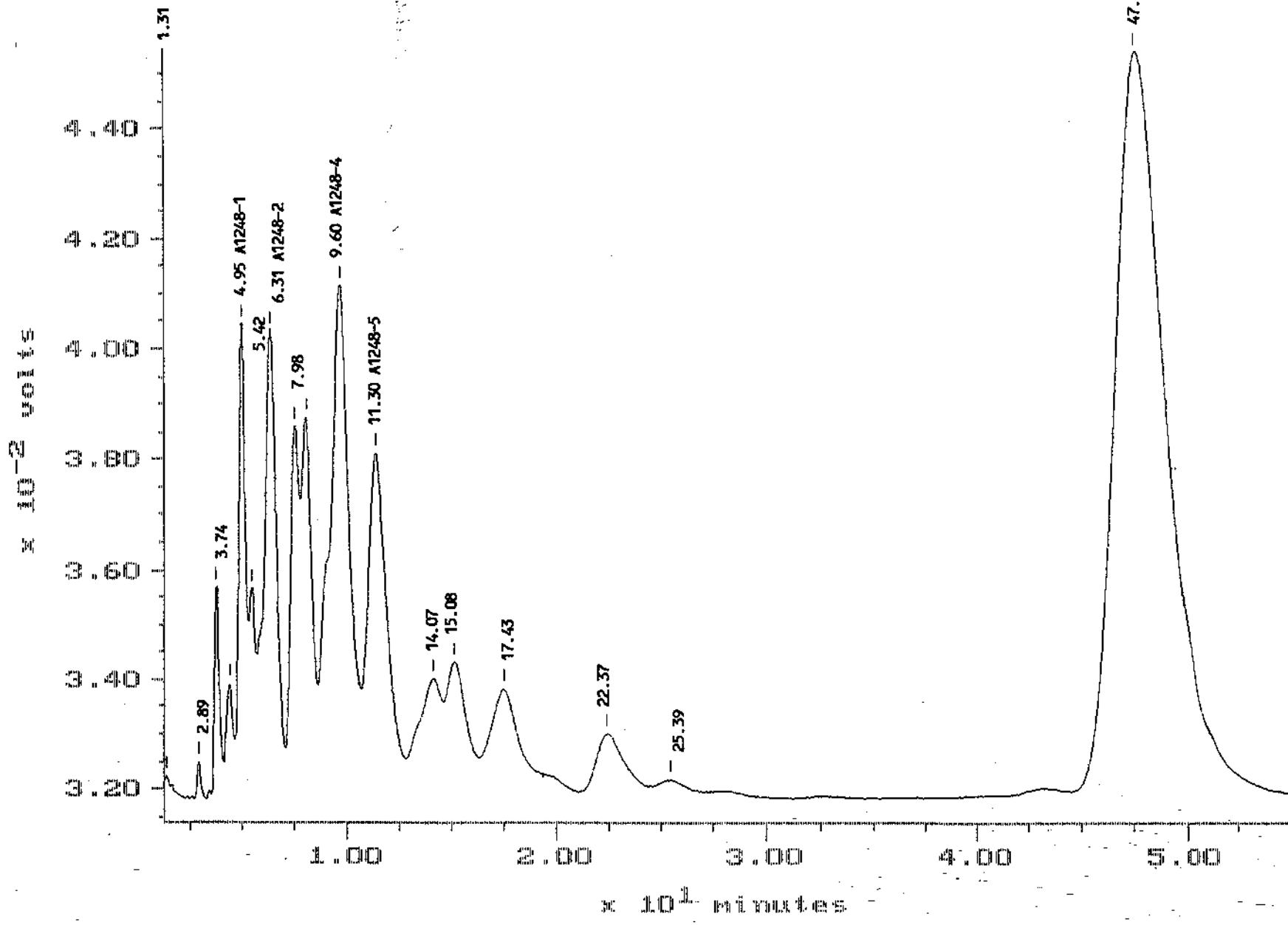
Index: Disk

DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		1.317	DP	456	11814	0.49				
2		2.900	PB	429	5282	0.22				
3		3.740	BP	2417	33972	1.40				
4		4.353	PB	823	13057	0.54				
5	1	4.937	BP	4403	69836	2.88	EXT	AREA	750.00	A1248-1
6		5.427	PB	637	7538	0.31				
7	2	6.320	BB	4493	137121	5.65	EXT	AREA	750.00	A1248-2
8	3	7.460	BP	2205	44252	1.82	EXT	AREA	750.00	A1248-3
9		7.967	PB	1587	35528	1.46				
10	4	9.570	BB	4110	169278	6.97	EXT	AREA	750.00	A1248-4
11	5	11.283	BB	3228	166427	6.85	EXT	AREA	750.00	A1248-5
12		14.007	BP	501	24495	1.01				
13		15.057	PP	731	31200	1.28				
14		17.440	PB	921	65798	2.71				
15		22.340	BB	675	57916	2.38				
16		25.500	BB	109	7491	0.31				
17	6	47.547	BB	8907	1548021	63.73	EXT	AREA	150.00	DBC
TOTAL				36633	2429024				3900.00	

Sample: A1248 1000PPB Channel: detector 1
Acquired: 11-OCT-94 20:28 Method: C:\MAX\DATA2\PCB10-11
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPELCOPORT 6FT X 4mm ID 5ul A/S INJ

Filename: PC101109
Operator: MAB



MAXIMA 820 CUSTOM REPORT

Printed: 13-OCT-1994 8:17:11

SAMPLE: A1248 1000PPB

#5 in Method: A1260 CALIBRATION PE8500
 Acquired: 11-OCT-1994 20:28
 Rate: 5.0 points/sec
 Duration: 55.000 minutes
 Operator: MAB

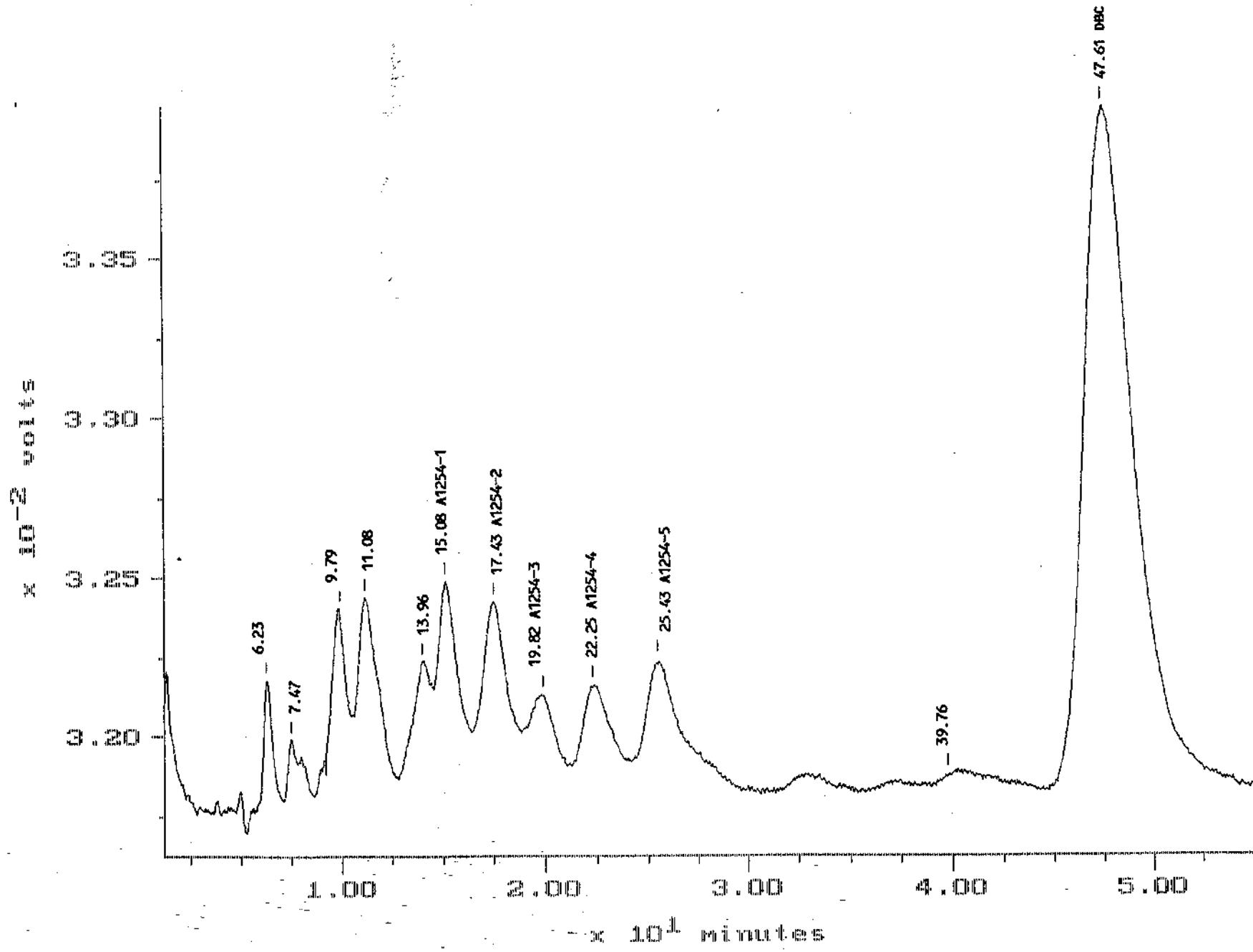
Type: STND
 Instrument: Instrument 2
 Filename: PC101109
 Index: Disk

DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		1.307	DP	408	10704	0.33				
2		2.890	PB	661	8403	0.26				
3		3.740	BP	3536	50085	1.54				
4		4.360	PB	1194	19112	0.59				
5	1	4.947	BB	6218	97203	2.98	EXT	AREA	1000.00	A1248-1
6		5.420	BB	854	9862	0.30				
7	2	6.313	BB	6180	183156	5.62	EXT	AREA	1000.00	A1248-2
8	3	7.470	BP	3009	59054	1.81	EXT	AREA	1000.00	A1248-3
9		7.980	PB	2612	61615	1.89				
10	4	9.600	BB	5718	224356	6.88	EXT	AREA	1000.00	A1248-4
11	5	11.300	BB	4578	227812	6.99	EXT	AREA	1000.00	A1248-5
12		14.067	BP	685	35068	1.08				
13		15.083	PP	1044	45791	1.40				
14		17.430	PB	1383	102853	3.15				
15		22.373	BB	1018	87106	2.67				
16		25.390	BB	162	10805	0.33				
17	6	47.640	BB	12853	2027999	62.19	EXT	AREA	200.00	DBC
TOTAL				52114	3260982				5200.00	

Sample: A1254 100 PPB channel: detector 1
Acquired: 11-OCT-94 21:23 Method: C:\MAX\DATA2\PCB10-11
Comments: PE8300 1.5%SP2250/1.95%SP2401 SUPELCOPT 6FT X 4mm ID 5ul A/S INJ

Filename: PC101110
Operator: MAS



MAXIMA 820 CUSTOM REPORT

Printed: 13-OCT-1994 8:43:36

SAMPLE: A1254 100 PPB

#1 in Method: A1260 CALIBRATION PE8500

Acquired: 11-OCT-1994 21:23

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: STND

Instrument: Instrument 2

Filename: PC101110

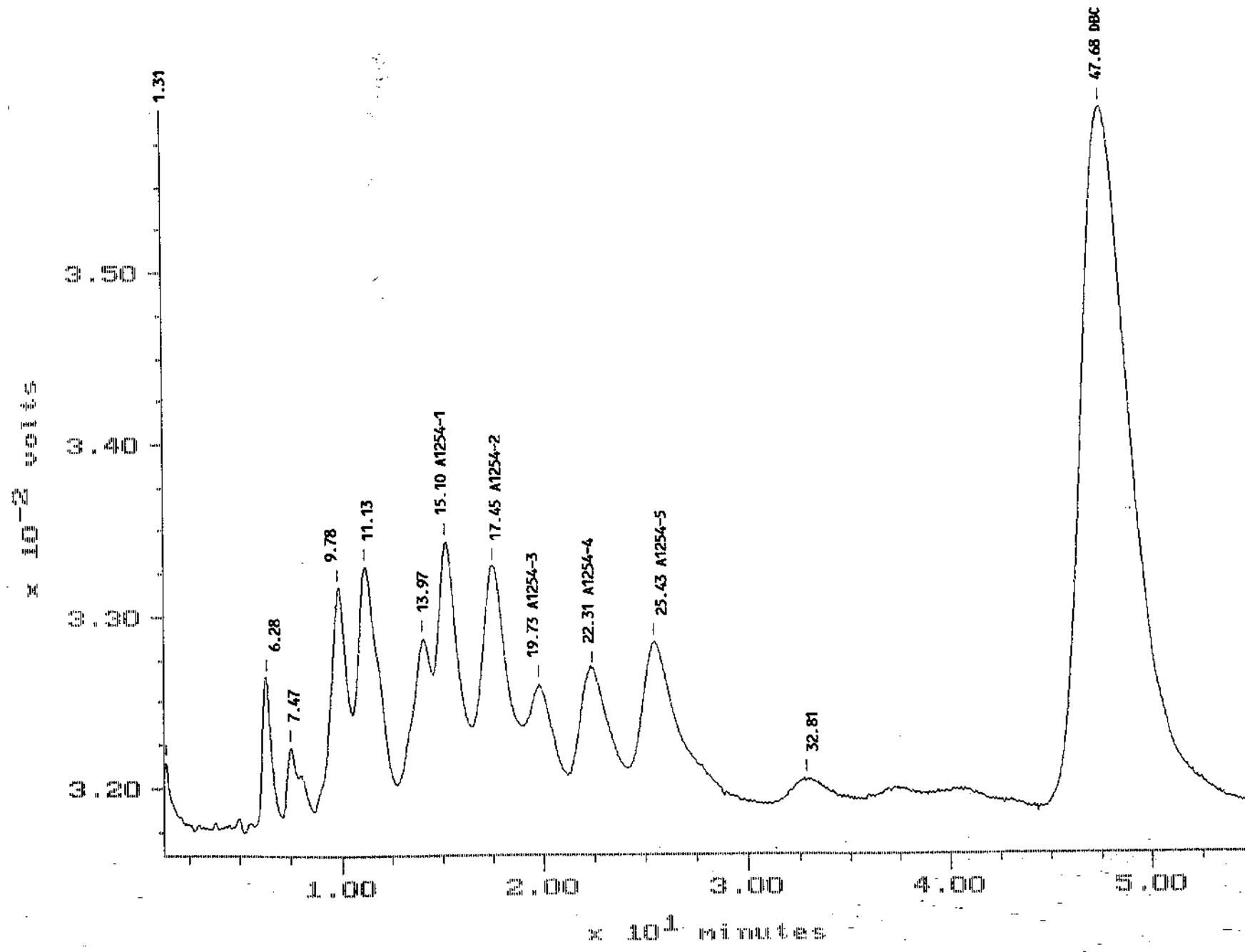
Index: Disk

DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		6.233	BP	401	11892	2.36				
2		7.473	PB	189	8130	1.61				
3		9.787	BP	412	15629	3.10				
4		11.077	PB	430	24344	4.83				
5		13.957	BP	176	7753	1.54				
6	1	15.083	PB	385	18552	3.68	EXT	AREA	100.00	A1254-1
7	2	17.433	BB	408	25402	5.04	EXT	AREA	100.00	A1254-2
8	3	19.823	BB	172	10810	2.14	EXT	AREA	100.00	A1254-3
9	4	22.253	BB	253	20093	3.98	EXT	AREA	100.00	A1254-4
10	5	25.430	BB	336	35906	7.12	EXT	AREA	100.00	A1254-5
11		39.763	BB	31	7091	1.41				
12	6	47.607	BB	2029	318797	63.20	EXT	AREA	20.00	DBC
TOTAL				5222	504400				520.00	

Sample: A1254 250 PPB Channel: detector 1
Acquired: 11-OCT-94 22:18 Method: C:\MAX\DATA2\PCB10-11
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPELCOPORT 6FT X 4mm ID SUL A/S INJ

Filename: PC10111
Operator: MAB



MAXIMA 820 CUSTOM REPORT

Printed: 13-OCT-1994 8:43:52

SAMPLE: A1254 250 PPB

#2 in Method: A1260 CALIBRATION PE8500

Acquired: 11-OCT-1994 22:18

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: STND

Instrument: Instrument 2

Filename: PC101111

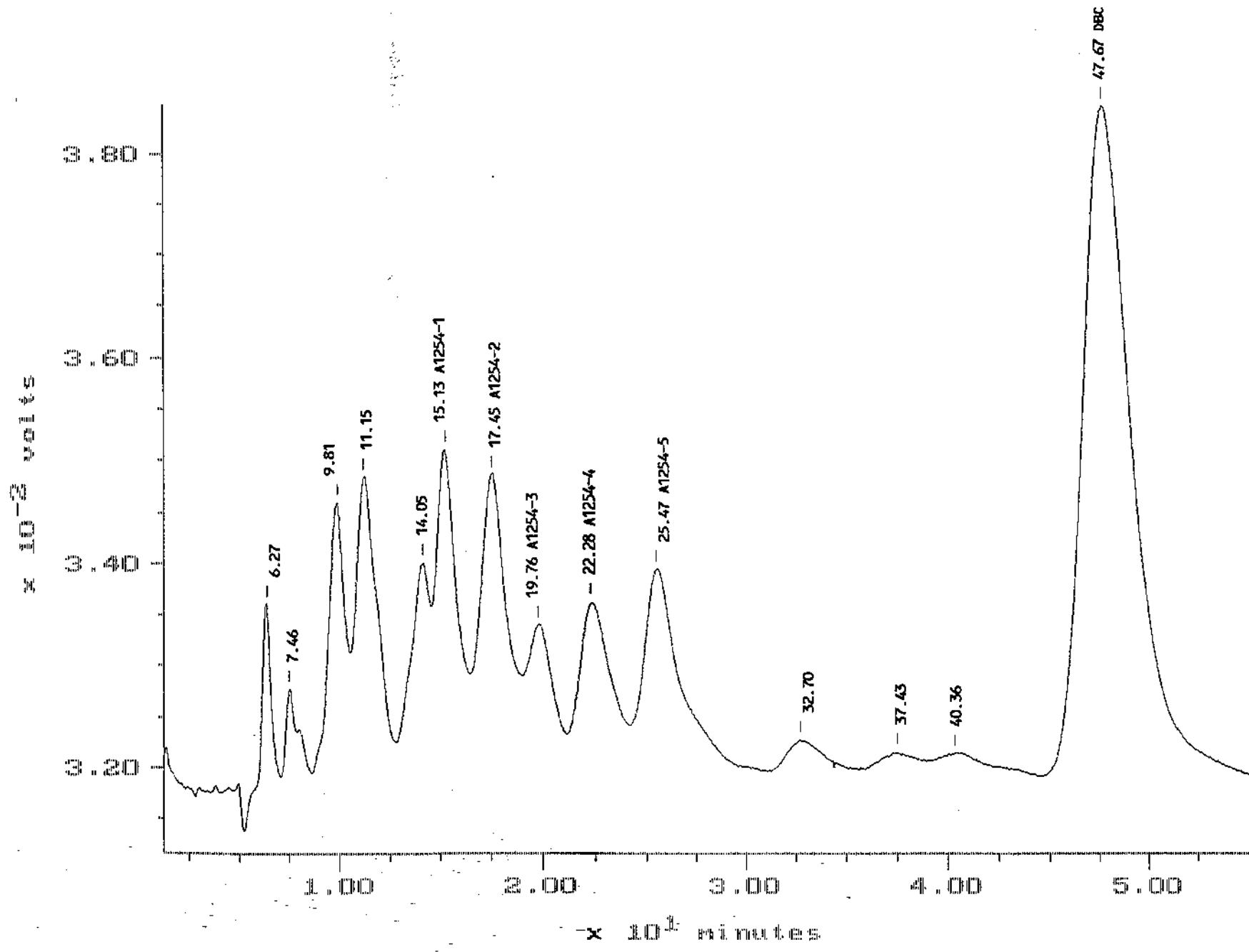
Index: Disk

DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		1.307	DP	404	17908	1.92				
2		6.280	PP	854	25857	2.77				
3		7.470	PP	391	16179	1.73				
4		9.777	PP	951	38586	4.13				
5		11.133	PB	984	58189	6.23				
6		13.967	BP	395	17421	1.86				
7	1	15.100	PB	876	42878	4.59	EXT	AREA	250.00	A1254-1
8	2	17.450	BB	930	59470	6.37	EXT	AREA	250.00	A1254-2
9	3	19.733	BB	355	21353	2.29	EXT	AREA	250.00	A1254-3
10	4	22.307	BB	589	47513	5.09	EXT	AREA	250.00	A1254-4
11	5	25.430	BB	733	71726	7.68	EXT	AREA	250.00	A1254-5
12		32.807	BB	127	13548	1.45				
13	6	47.677	BB	3507	503459	53.90	EXT	AREA	50.00	DBC
TOTAL				11097	934086				1300.00	

Sample: A1254 500 PPB Channel: detector 1
Acquired: 11-OCT-94 23:13 Method: C:\MAX\DATA2\PCB10-11
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPELCOPORT GFT X 4mm ID 5ul A/S INJ

filename: PC101112
operator: MAB



MAXIMA 820 CUSTOM REPORT

Printed: 13-OCT-1994 8:44:10

SAMPLE: A1254 500 PPB
 #3 in Method: A1260 CALIBRATION PE8500
 Acquired: 11-OCT-1994 23:13
 Rate: 5.0 points/sec
 Duration: 55.000 minutes
 Operator: MAB

Type: STND
 Instrument: Instrument 2
 Filename: PC101112
 Index: Disk

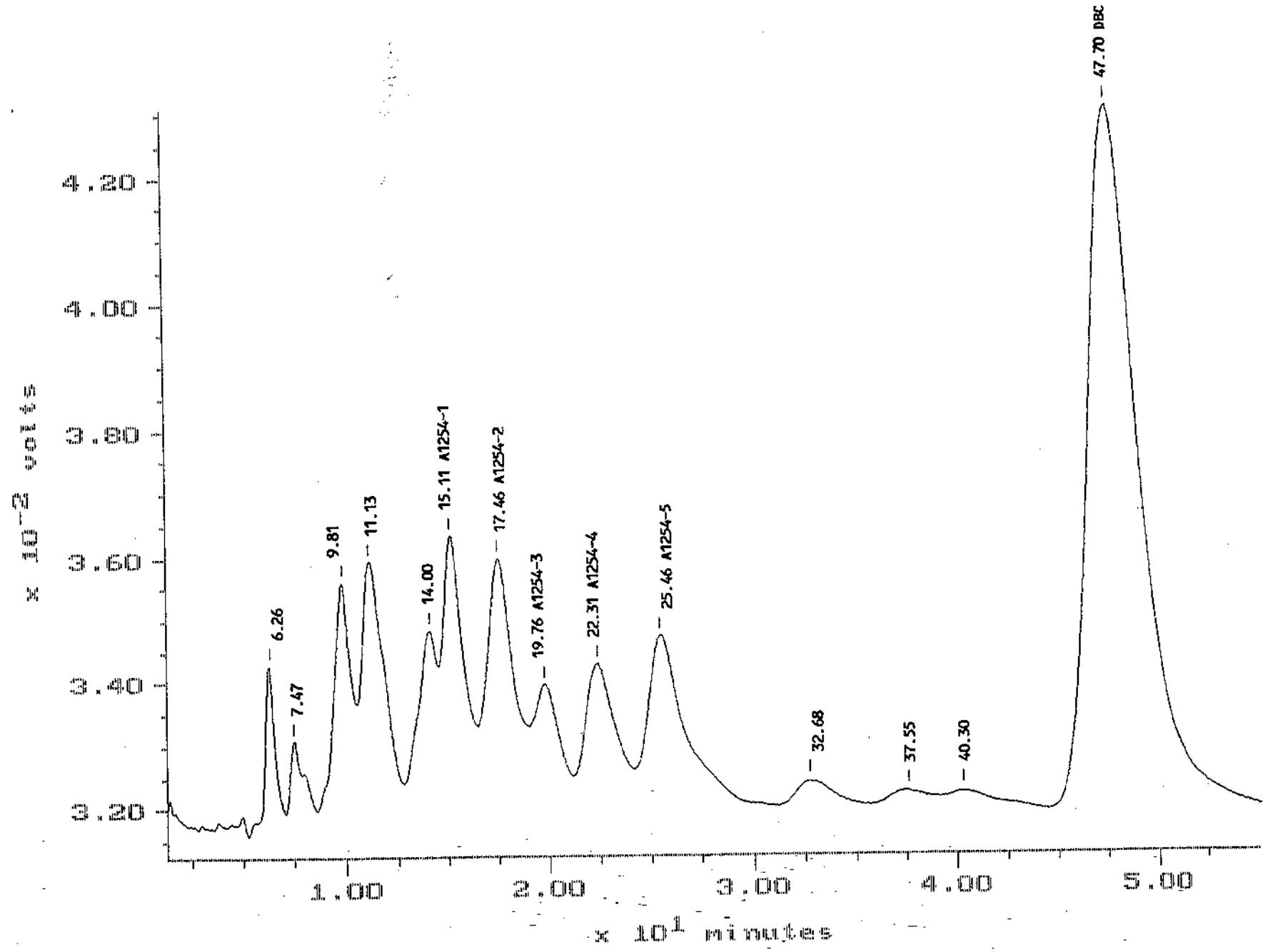
DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		6.267	BP	1726	48869	2.72				
2		7.463	PB	588	11664	0.65				
3		9.807	BP	1853	74186	4.12				
4		11.147	PB	1902	103320	5.74				
5		14.053	BB	713	31181	1.73				
6	1	15.130	BB	1639	75946	4.22	EXT	AREA	500.00	A1254-1
7	2	17.453	BB	1837	108474	6.03	EXT	AREA	500.00	A1254-2
8	3	19.757	BB	658	37134	2.06	EXT	AREA	500.00	A1254-3
9	4	22.280	BB	1188	91221	5.07	EXT	AREA	500.00	A1254-4
10	5	25.467	BB	1582	158209	8.79	EXT	AREA	500.00	A1254-5
11		32.697	BB	285	32352	1.80				
12		37.430	BB	120	10589	0.59				
13		40.360	BB	106	9838	0.55				
14	6	47.667	BB	6283	1006607	55.94	EXT	AREA	100.00	DBC
TOTAL				20477	1799590				2600.00	

Sample: A1254 750 PPB channel: detector 1
Acquired: 12-OCT-94 0:08 Method: C:\MAX\DATA2\PCB10-11
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPERCOPO RT 6FT X 4mm ID Sulf A/S INJ

Filename: PC101113

Operator: MAB



MAXIMA 820 CUSTOM REPORT

Printed: 13-OCT-1994 8:44:27

SAMPLE: A1254 750 PPB

#4 in Method: A1260 CALIBRATION PE8500

Acquired: 12-OCT-1994 0:08

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: STND

Instrument: Instrument 2

Filename: PC101113

Index: Disk

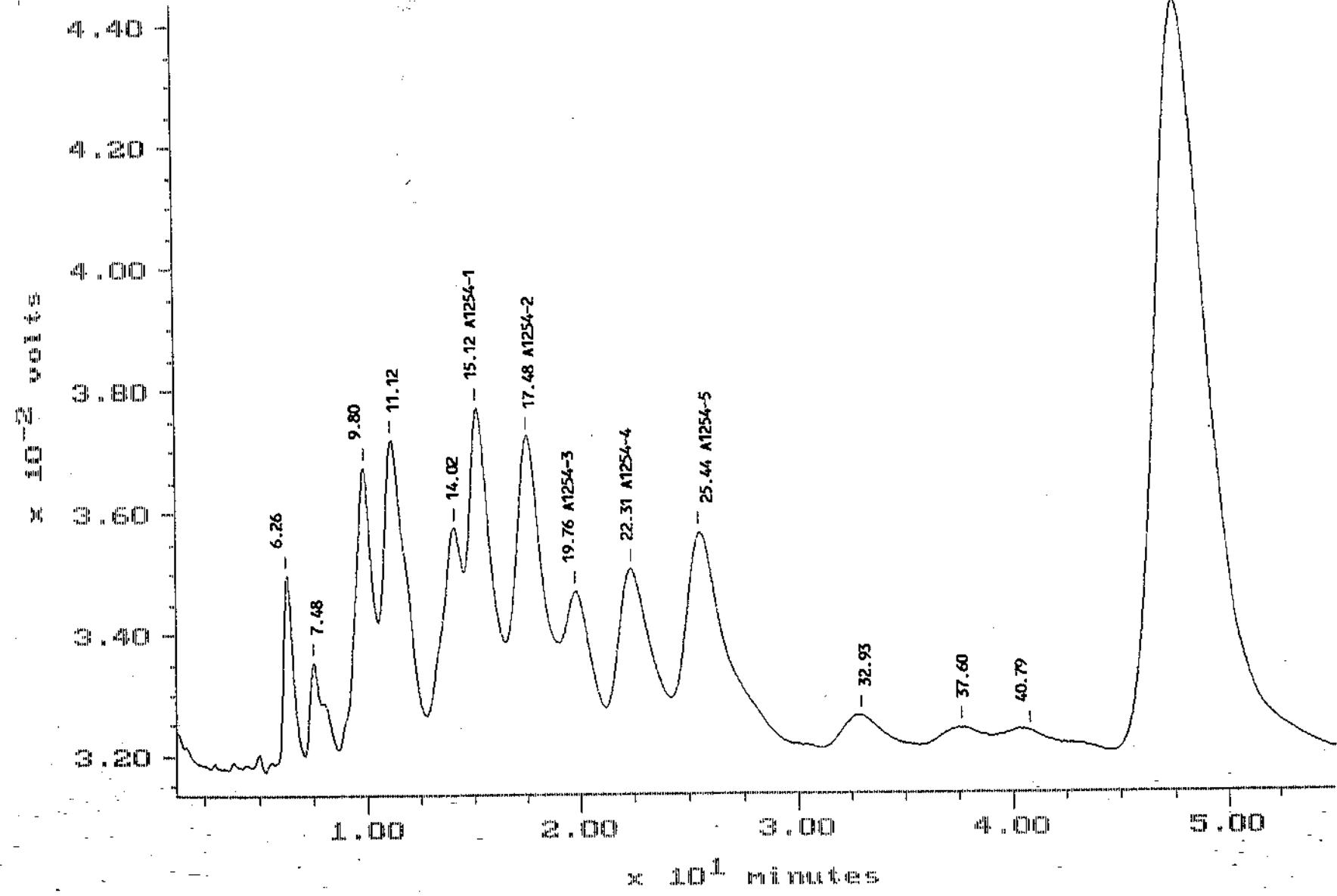
DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc.	Component Name
1		6.260	BP	2392	67910	2.50				
2		7.467	PP	1135	45652	1.68				
3		9.810	PP	2510	102221	3.76				
4		11.127	PB	2649	156723	5.77				
5		14.000	BP	1069	48004	1.77				
6	1	15.107	PB	2385	116259	4.28	EXT	AREA	750.00	A1254-1
7	2	17.463	BB	2642	169081	6.23	EXT	AREA	750.00	A1254-2
8	3	19.757	BB	969	58024	2.14	EXT	AREA	750.00	A1254-3
9	4	22.310	BB	1730	139286	5.13	EXT	AREA	750.00	A1254-4
10	5	25.460	BB	2234	235395	8.67	EXT	AREA	750.00	A1254-5
11		32.677	BB	397	46938	1.73				
12		37.550	BB	149	14561	0.54				
13		40.303	BB	112	9105	0.34				
14	6	47.703	BB	10072	1506559	55.48	EXT	AREA	150.00	DBC
TOTAL				30444	2715719				3900.00	

Sample: A1254 1000 PPB channel: detector 1
Acquired: 12-OCT-94 1:03 Method: C:\MAX\DATA2\PC810-11
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPELCOPT 6FT X 4mm ID SUL A/S INJ

Filename: PC101114

Operator: MAB



MAXIMA 820 CUSTOM REPORT

Printed: 13-OCT-1994 8:44:45

SAMPLE: A1254 1000 PPB

#5 in Method: A1260 CALIBRATION PE8500

Acquired: 12-OCT-1994 1:03

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: STND
 Instrument: Instrument 2
 Filename: PC101114
 Index: Disk

DETECTOR: detector 1

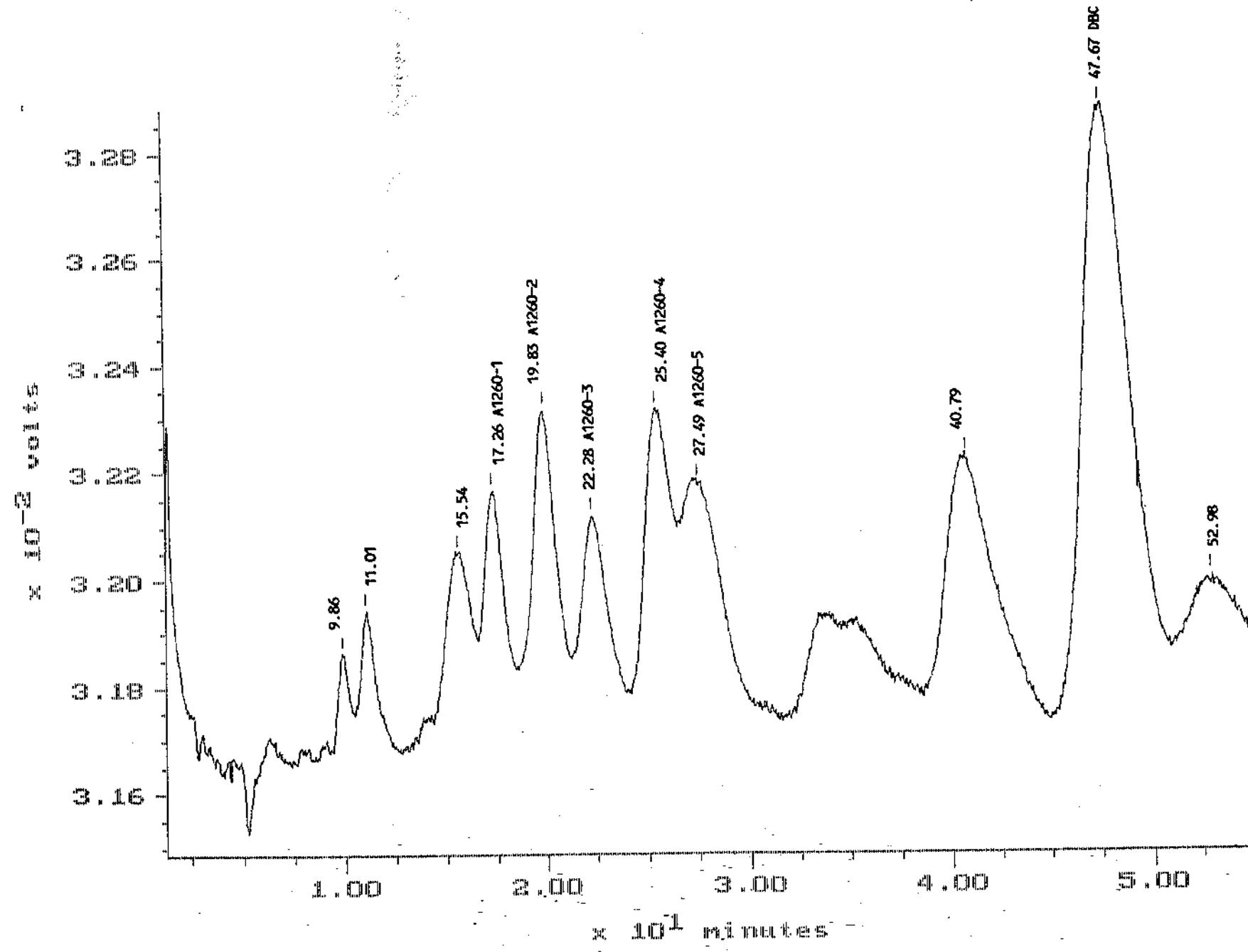
PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		6.257	BP	3034	88391	2.51				
2		7.480	PP	1488	60713	1.72				
3		9.800	PP	3275	135446	3.85				
4		11.123	PB	3421	202951	5.77				
5		14.020	BP	1358	62181	1.77				
6	1	15.123	PB	3069	151660	4.31	EXT	AREA	1000.00	A1254-1
7	2	17.480	BB	3366	215072	6.11	EXT	AREA	1000.00	A1254-2
8	3	19.757	BB	1246	74344	2.11	EXT	AREA	1000.00	A1254-3
9	4	22.307	BB	2224	182313	5.18	EXT	AREA	1000.00	A1254-4
10	5	25.437	BB	2829	300378	8.53	EXT	AREA	1000.00	A1254-5
11		32.933	BB	484	54943	1.56				
12		37.600	BB	183	16769	0.48				
13		40.787	BB	144	15300	0.43				
14	6	47.710	BB	11984	1959390	55.67	EXT	AREA	200.00	DBC
TOTAL				38105	3519852				5200.00	

721

Sample: A1260 100 PPB channel: detector 1
Acquired: 12-oct-94 1:58 Method: C:\MAX\DATA2\PC810-11
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPERCOPT 6FT X 4mm ID 5ul A/S INJ

Filename: PC101115

Operator: MAB



MAXIMA 820 CUSTOM REPORT

Printed: 12-OCT-1994 14:24:02

SAMPLE: A1260 100 PPB

#15 in Method: A1260 CALIBRATION PESS500

Acquired: 12-OCT-1994 1:58

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: STND

Instrument: Instrument 2

Filename: PC101115

Index: Disk

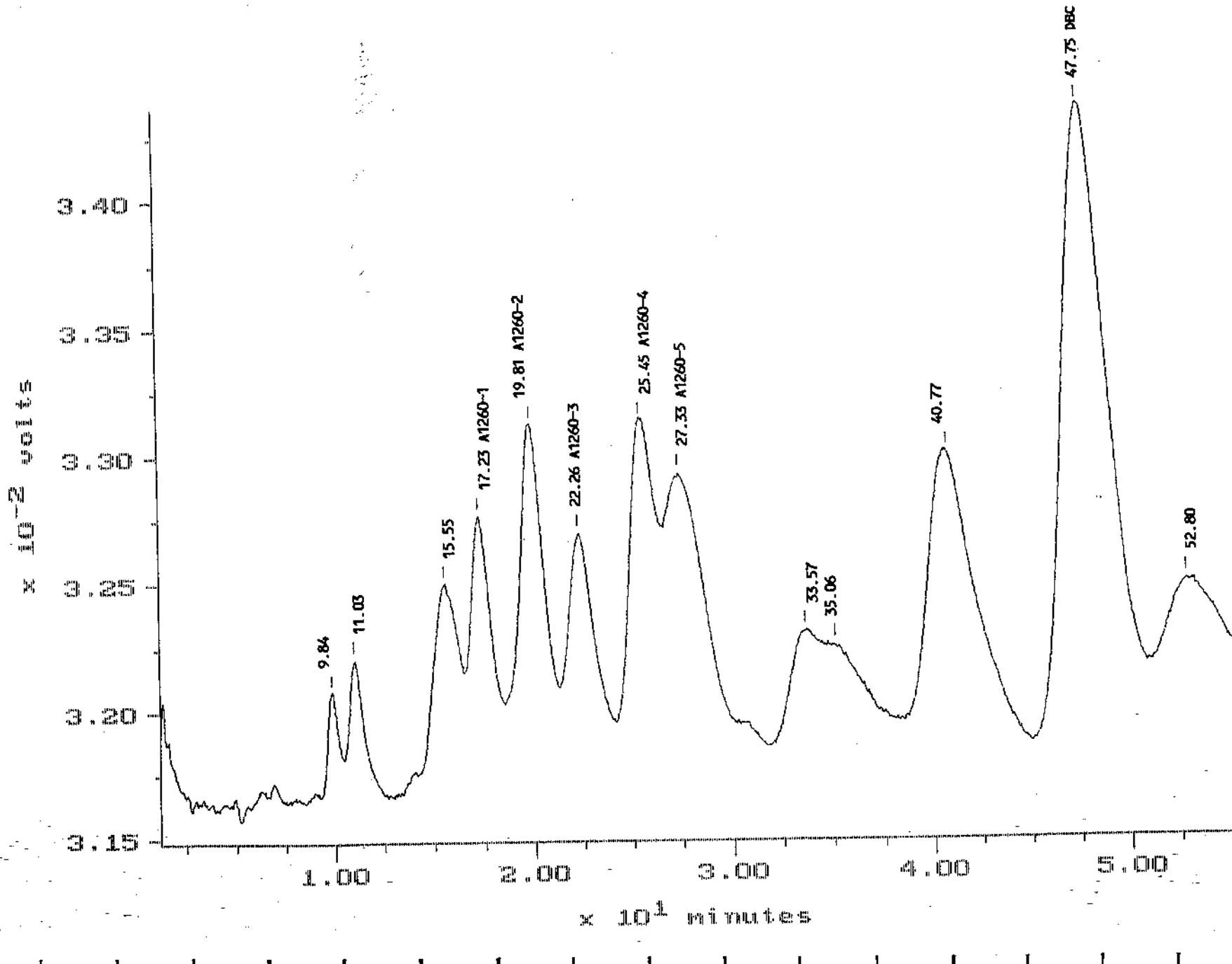
DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		9.860	BB	144	4681	1.18				
2		11.010	BB	211	9522	2.41				
3		15.537	BP	221	15323	3.88				
4	1	17.260	PP	296	15483	3.92	EXT	AREA	100.00	A1260-1
5	2	19.833	PP	475	32848	8.32	EXT	AREA	100.00	A1260-2
6	3	22.277	PP	292	21638	5.48	EXT	AREA	100.00	A1260-3
7	4	25.400	PB	360	24172	6.12	EXT	AREA	100.00	A1260-4
8	5	27.490	BB	169	17257	4.37	EXT	AREA	100.00	A1260-5
9		40.790	BB	456	74415	18.84				
10	6	47.667	BB	1073	160253	40.57	EXT	AREA	20.00	DBC
11		52.980	BD	139	19449	4.92				
TOTAL				3837	395041				520.00	

Sample: A1260 250 PPB Channel: detector 1
Acquired: 12-OCT-94 2:53 Method: C:\MAX\DATA2\PC810-11
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPERCOPORT 6FT X 4mm ID 5ml A/S INJ

filename: PC101116

operator: HAB



MAXIMA 820 CUSTOM REPORT

Printed: 12-OCT-1994 14:24:19

SAMPLE: A1260 250 PPB

#16 in Method: A1260 CALIBRATION PE8500

Acquired: 12-OCT-1994 2:53

Rate: 5.0 points/sec

Duration: 55,000 minutes

Operator: HAB

Type: STND

Instrument: Instrument 2

Filename: PC101116

Index: Disk

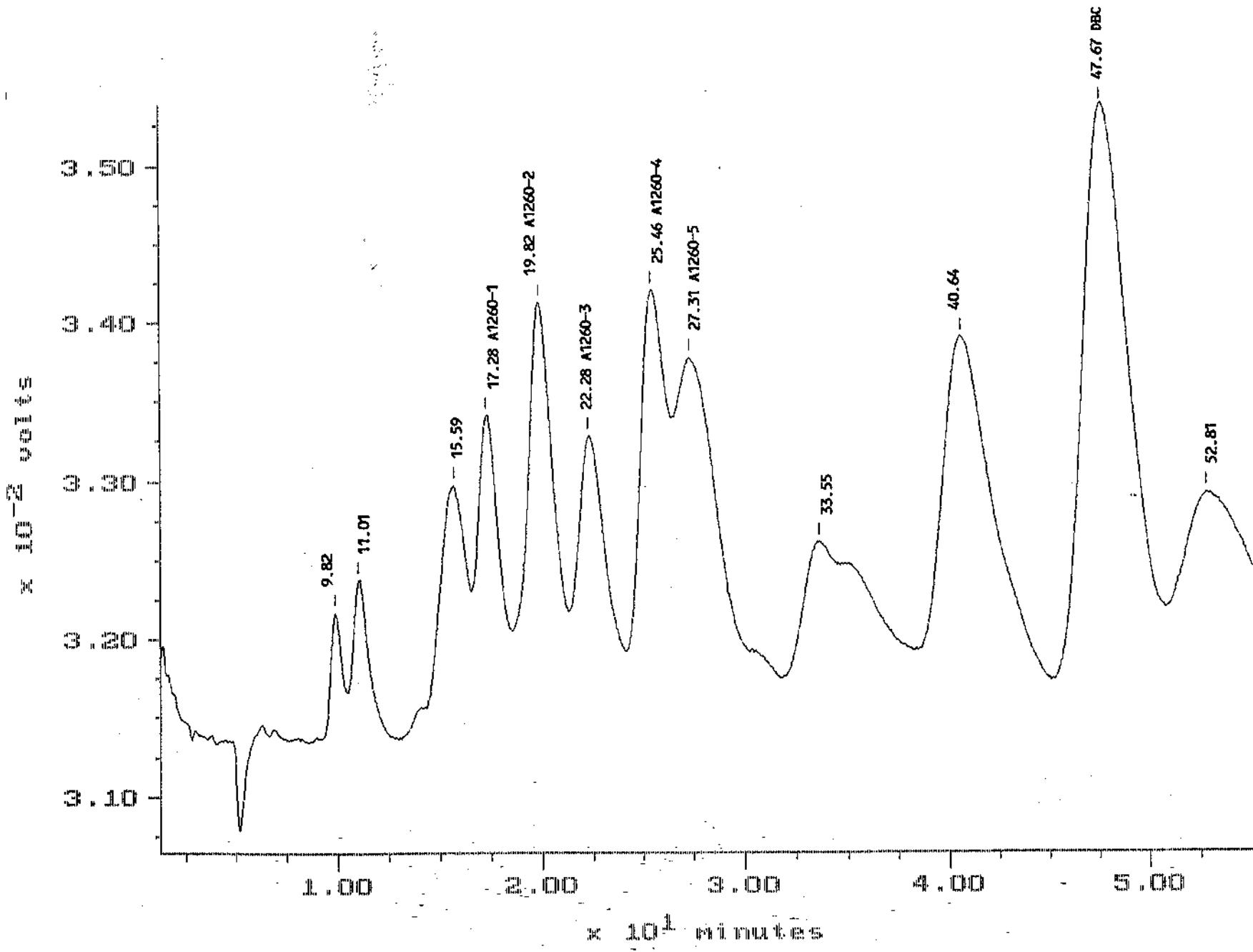
DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		9.837	BP	325	9517	1.19				
2		11.033	PB	427	18006	2.26				
3		15.550	BP	518	34862	4.37				
4	1	17.230	PP	663	34627	4.34	EXT	AREA	250.00	A1260-1
5	2	19.813	PP	1069	74715	9.37	EXT	AREA	250.00	A1260-2
6	3	22.260	PB	657	48792	6.12	EXT	AREA	250.00	A1260-3
7	4	25.453	BP	737	50084	6.28	EXT	AREA	250.00	A1260-4
8	5	27.327	PB	404	43505	5.46	EXT	AREA	250.00	A1260-5
9		33.567	BP	115	7891	0.99				
10		35.060	PB	65	5504	0.69				
11		40.770	BB	1082	174552	21.90				
12	6	47.753	BB	2018	258081	32.38	EXT	AREA	50.00	DBC
13		52.803	BB	278	36877	4.63				
TOTAL				8356	797016				1300.00	

Sample: A1260 500 PPB channel: detector 1
Acquired: 12-OCT-94 3:48 Method: C:\MAX\DATA2\PCB10-11
Comments: PE800 1.5%SP2250/1.95%SP2401 SUPERCOPT 6FT X 4mm ID Sulf A/S INJ

File Name: PC101117

Operator: MAB



MAXIMA 820 CUSTOM REPORT

Printed: 12-OCT-1994 14:24:37

SAMPLE: A1260 500 PPB
 #17 in Method: A1260 CALIBRATION PE8500
 Acquired: 12-OCT-1994 3:48
 Rate: 5.0 points/sec
 Duration: 55.000 minutes
 Operator: MAB

Type: STND
 Instrument: Instrument 2
 Filename: PC101117
 Index: Disk

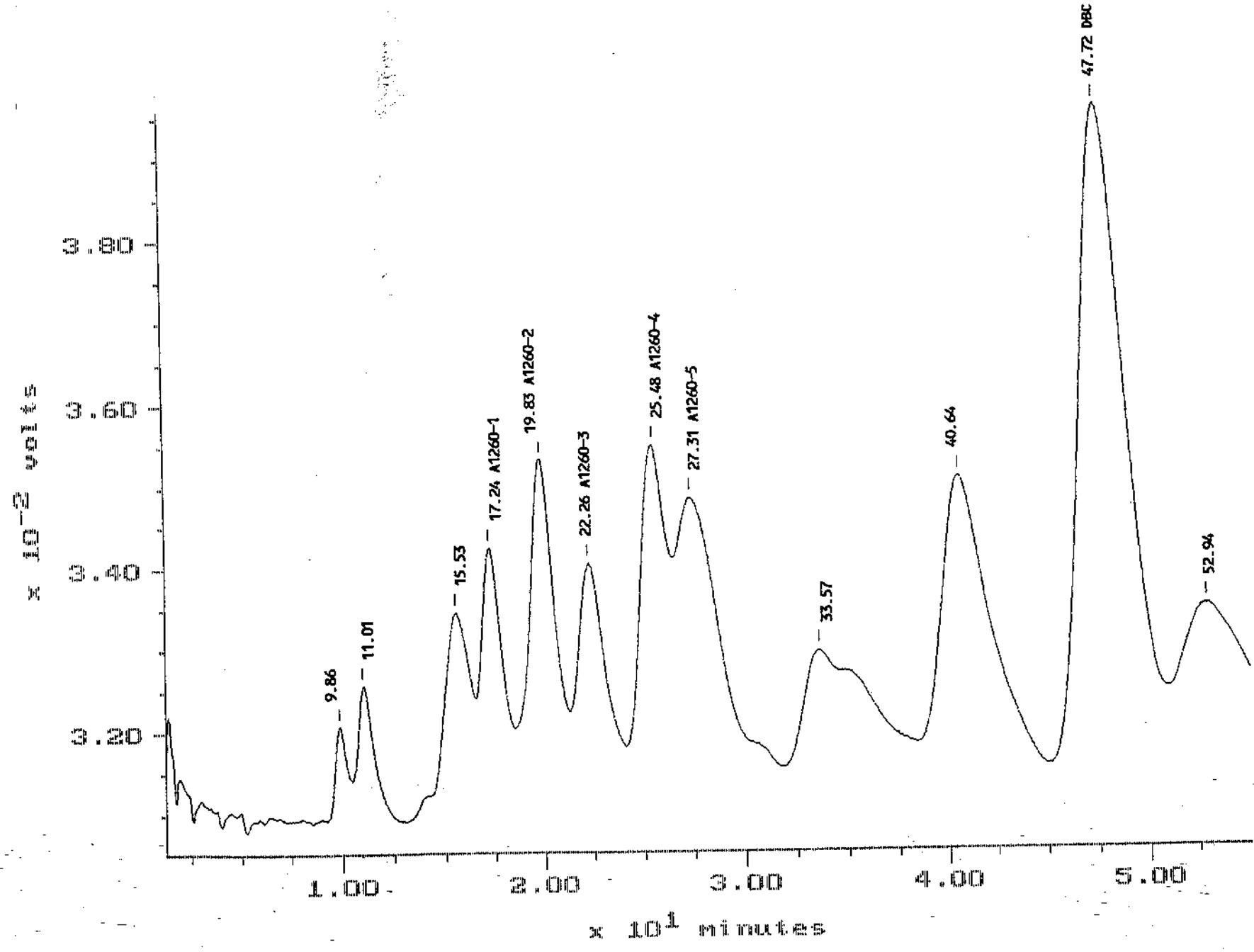
DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc.	Component Name
1		9.823	BP	624	18255	1.15				
2		11.010	PB	785	33532	2.12				
3		15.590	BP	950	64872	4.10				
4	1	17.277	PP	1211	64950	4.10	EXT	AREA	500.00	A1260-1
5	2	19.817	PP	2016	141180	8.92	EXT	AREA	500.00	A1260-2
6	3	22.280	PB	1200	89368	5.64	EXT	AREA	500.00	A1260-3
7	4	25.460	BP	1456	100148	6.32	EXT	AREA	500.00	A1260-4
8	5	27.313	PB	723	78428	4.95	EXT	AREA	500.00	A1260-5
9		33.553	BB	460	38577	2.44				
10		40.640	BB	2029	337022	21.28				
11	6	47.670	BB	3426	505425	31.92	EXT	AREA	100.00	DBC
12		52.807	BD	703	111740	7.06				
TOTAL				15584	1583497				2600.00	

Sample: A1260 750 PPB channel: detector 1
Acquired: 12-OCT-94 4:44 Method: C:\MAX\DATA2\PCB90-11
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPERCOPORT 6FT X 4mm ID Sulf A/S INJ

Filename: PC101118

Operator: MAB



MAXIMA 820 CUSTOM REPORT

Printed: 12-OCT-1994 14:24:54

SAMPLE: A1260 750 PPB
 #18 in Method: A1260 CALIBRATION PE8500
 Acquired: 12-OCT-1994 4:44
 Rate: 5.0 points/sec
 Duration: 55.000 minutes
 Operator: MAB

Type: STND
 Instrument: Instrument 2
 Filename: PC101118
 Index: Disk

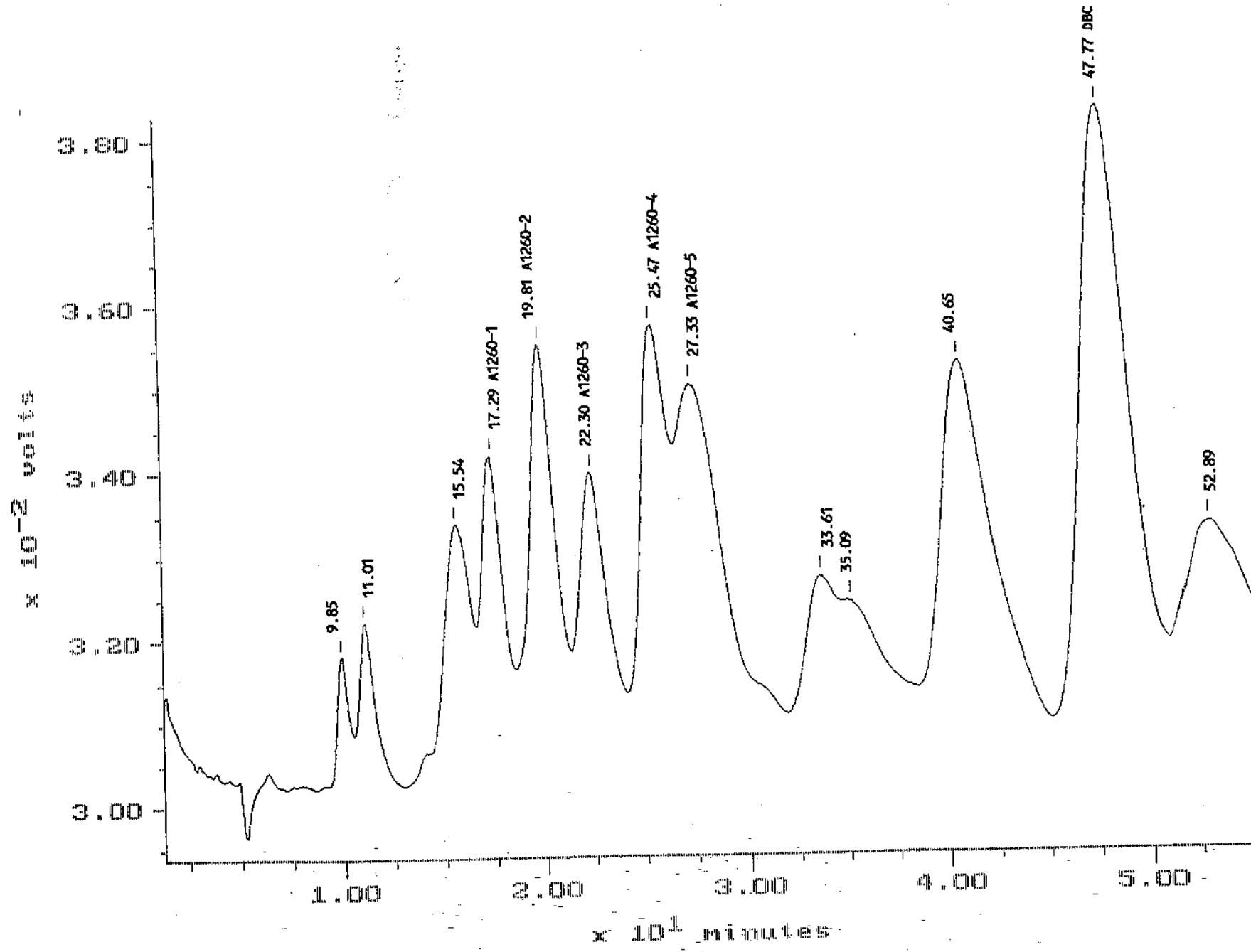
DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		9.857	BP	891	27623	1.07				
2		11.013	PB	1274	56281	2.19				
3		15.530	BB	1560	103739	4.03				
4	1	17.237	BB	1829	90709	3.53	EXT	AREA	750.00	A1260-1
5	2	19.827	BB	3030	200726	7.80	EXT	AREA	750.00	A1260-2
6	3	22.257	BB	1852	129354	5.03	EXT	AREA	750.00	A1260-3
7	4	25.477	BB	2156	138916	5.40	EXT	AREA	750.00	A1260-4
8	5	27.307	BB	1124	119903	4.66	EXT	AREA	750.00	A1260-5
9		33.567	BP	1339	251349	9.77				
10		40.643	PB	3333	539601	20.98				
11	6	47.723	BB	6289	767695	29.84	EXT	AREA	150.00	DBC
12		52.937	BD	992	146688	5.70				
TOTAL				25669	2572582				3900.00	

Sample: A1260 1000 PPB Channel: detector 1
Acquired: 12-OCT-94 5:39 Method: C:\MAX\DATA2\PCB00-11
Comments: PE5500 1.5%SP2250/1.95%SP2401 SUPERCOPOORT 6FT X 4mm ID 5ul A/S INJ

Filename: PC101119

Operator: MAB



MAXIMA 820 CUSTOM REPORT

Printed: 12-OCT-1994 14:25:12

SAMPLE: A1260 1000 PPB
 #19 in Method: A1260 CALIBRATION PE8500
 Acquired: 12-OCT-1994 5:39
 Rate: 5.0 points/sec
 Duration: 55.000 minutes
 Operator: MAB

Type: STND
 Instrument: Instrument 2
 Filename: PC101119
 Index: Disk

DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		9.850	BP	1240	38151	1.23				
2		11.013	PB	1493	64445	2.08				
3		15.543	BP	1874	127525	4.11				
4	1	17.287	PP	2228	119184	3.84	EXT	AREA	1000.00	A1260-1
5	2	19.813	PP	3781	266677	8.59	EXT	AREA	1000.00	A1260-2
6	3	22.303	PB	2325	173237	5.58	EXT	AREA	1000.00	A1260-3
7	4	25.470	BP	2667	182955	5.89	EXT	AREA	1000.00	A1260-4
8	5	27.330	PB	1449	159421	5.13	EXT	AREA	1000.00	A1260-5
9		33.613	BP	707	55142	1.78				
10		35.087	PB	208	18585	0.60				
11		40.650	BB	4012	664329	21.40				
12	6	47.773	BB	6836	1015153	32.69	EXT	AREA	200.00	DBC
13		52.890	BD	1388	220135	7.09				
TOTAL				30208	3104938				5200.00	

A1248-1 Calibration Report

Printed: 13-OCT-1994 8:10:03

Quant Basis: Area

Rejection Tolerance: None

Internal Standard: None

Curve Type: Linear

Weighting: None

Forced Through Origin: No

Y-axis Label: Concentration

Corr. Coef. (r): 0.9993812 Coef. of Determination (r^2): 0.9987628

Equation: Conc = 2.286485E+00 + 1.039754E-02 * R

Sample	File Name	Valid	Concentration	Response	Calc'd Concentration	% Deviation	Response Factor
A1248 100 PPB	PC101105	Y	1.000000E+02	9.6388838E+03	1.025072E+02	-2.45E+00	1.037465E-02
A1248 250 PPB	PC101106	Y	2.500000E+02	2.4108367E+04	2.529543E+02	-1.17E+00	1.036984E-02
A1248 500 PPB	PC101107	Y	5.000000E+02	4.8173437E+04	5.031719E+02	-6.30E-01	1.037916E-02
A1248 750 PPB	PC101108	Y	7.500000E+02	6.9835578E+04	7.284050E+02	2.96E+00	1.073951E-02
A1248 1000PPB	PC101109	Y	1.000000E+03	9.7203250E+04	1.012962E+03	-1.28E+00	1.028772E-02

A1248-2 Calibration Report

Printed: 13-OCT-1994 8:10:08

Quant Basis: Area Rejection Tolerance: None Internal Standard: None
Curve Type: Linear Weighting: None Forced Through Origin: No
Y-axis Label: Concentration
Corr. Coef. (r): 0.9999743 Coef. of Determination (r^2): 0.9999485

Equation: Conc = -1.439200E+01 + 5.552117E-03 * R

Sample	File Name	Valid	Concentration	Response	Calc'd Concentration	% Deviation	Response Factor
A1248 100 PPB	PC101105	Y	1.000000E+02	2.0512107E+04	9.949362E+01	5.09E-01	4.875169E-03
A1248 250 PPB	PC101106	Y	2.500000E+02	4.8135887E+04	2.528641E+02	-1.13E+00	5.193630E-03
A1248 500 PPB	PC101107	Y	5.000000E+02	9.2325516E+04	4.982101E+02	3.59E-01	5.415621E-03
A1248 750 PPB	PC101108	Y	7.500000E+02	1.3712108E+05	7.469203E+02	4.12E-01	5.469619E-03
A1248 1000PPB	PC101109	Y	1.000000E+03	1.8315605E+05	1.002512E+03	-2.51E-01	5.459825E-03

A1248-3 Calibration Report

Printed: 13-OCT-1994 8:10:13

Quant Basis: Area Rejection Tolerance: None Internal Standard: None
Curve Type: Linear Weighting: None Forced Through Origin: No
Y-axis Label: Concentration
Corr. Coef. (r): 0.9996418 Coef. of Determination (r^2): 0.9992838

$$\text{Equation: Conc} = -1.710913\text{E+01} + 1.731241\text{E-02} * R$$

Sample	File Name	Valid	Concentration	Response	Calc'd Concentration	% Deviation	Response Factor
A1248 100 PPB	PC101105	Y	1.000000E+02	7.5525298E+03	1.136434E+02	-1.20E+01	1.324060E-02
A1248 250 PPB	PC101106	Y	2.500000E+02	1.4805319E+04	2.392066E+02	4.51E+00	1.688582E-02
A1248 500 PPB	PC101107	Y	5.000000E+02	2.9458670E+04	4.928915E+02	1.44E+00	1.697293E-02
A1248 750 PPB	PC101108	Y	7.500000E+02	4.4252477E+04	7.490079E+02	1.32E-01	1.694820E-02
A1248 1000PPB	PC101109	Y	1.000000E+03	5.9053574E+04	1.005251E+03	-5.22E-01	1.693378E-02

A1248-4 Calibration Report

Printed: 13-OCT-1994 8:10:17

Quant Basis: Area Rejection Tolerance: None Internal Standard: None
Curve Type: Linear Weighting: None Forced Through Origin: No
Y-axis Label: Concentration
Corr. Coef. (r): 0.9998779 Coef. of Determination (r^2): 0.9997558

Equation: Conc = -2.602156E+01 + 4.582013E-03 * R

Sample	File Name	Valid	Concentration	Response	Calc'd Concentration	% Deviation	Response Factor
A1248 100 PPB	PC101105	Y	1.000000E+02	2.9173094E+04	1.076499E+02	-7.11E+00	3.427816E-03
A1248 250 PPB	PC101106	Y	2.500000E+02	5.8461773E+04	2.418510E+02	3.37E+00	4.276299E-03
A1248 500 PPB	PC101107	Y	5.000000E+02	1.1456322E+05	4.989086E+02	2.19E-01	4.364403E-03
A1248 750 PPB	PC101108	Y	7.500000E+02	1.6927761E+05	7.496106E+02	5.19E-02	4.430592E-03
A1248 1000PPB	PC101109	Y	1.000000E+03	2.2435583E+05	1.001980E+03	-1.98E-01	4.457205E-03

A1248-5 Calibration Report

Printed: 13-OCT-1994 8:10:21

Quant Basis: Area

Rejection Tolerance: None

Internal Standard: None

Curve Type: Linear

Weighting: None

Forced Through Origin: No

Y-axis Label: Concentration

Corr. Coef. (r): 0.9993041

Coeff. of Determination (r^2): 0.9986087

Equation: Conc = -1.263092E+01 + 4.497042E-03 * R

Sample	File Name	Valid	Concentration	Response	Calc'd Concentration	% Deviation	Response Factor
A1248 100 PPB	PC101105	Y	1.000000E+02	2.8512578E+04	1.155914E+02	-1.35E+01	3.507224E-03
A1248 250 PPB	PC101106	Y	2.500000E+02	5.5624422E+04	2.375145E+02	5.26E+00	4.494429E-03
A1248 500 PPB	PC101107	Y	5.000000E+02	1.1382548E+05	4.992471E+02	1.51E-01	4.392689E-03
A1248 750 PPB	PC101108	Y	7.500000E+02	1.6642731E+05	7.357998E+02	1.93E+00	4.506472E-03
A1248 1000PPB	PC101109	Y	1.000000E+03	2.2781156E+05	1.011847E+03	-1.17E+00	4.389593E-03

DBC Calibration Report

Printed: 13-OCT-1994 8:10:26

Quant Basis: Area Rejection Tolerance: None Internal Standard: None
Curve Type: Linear Weighting: None Forced Through Origin: No
Y-axis Label: Concentration
Corr. Coef. (r): 0.9979811 Coef. of Determination (r^2): 0.9959663

Equation: Conc = -1.022205E+01 + 1.040708E-04 * R

Sample	File Name	Valid	Concentration	Response	Calc'd Concentration	% Deviation	Response Factor
A1248 100 PPB	PC101105	Y	2.000000E+01	2.7891797E+05	1.880518E+01	6.35E+00	7.170567E-05
A1248 250 PPB	PC101106	Y	5.000000E+01	6.3805062E+05	5.618041E+01	-1.10E+01	7.836369E-05
A1248 500 PPB	PC101107	Y	1.000000E+02	9.9471900E+05	9.329918E+01	7.18E+00	1.005309E-04
A1248 750 PPB	PC101108	Y	1.500000E+02	1.5480206E+06	1.508817E+02	-5.84E-01	9.689793E-05
A1248 1000PPB	PC101109	Y	2.000000E+02	2.0279991E+06	2.008335E+02	-4.15E-01	9.861937E-05

A1254-1 Calibration Report

Printed: 13-OCT-1994 8:39:31

Quant Basis: Area Rejection Tolerance: None Internal Standard: None
Curve Type: Linear Weighting: None Forced Through Origin: No
Y-axis Label: Concentration
Corr. Coef. (r): 0.9995971 Coef. of Determination (r^2): 0.9991944

$$\text{Equation: Conc} = -2.889351\text{E+01} + 6.771533\text{E-03} * R$$

Sample	File Name	Valid	Concentration	Response	Calc'd Concentration	% Deviation	Response Factor
A1254 100 PPB	PC101110	Y	1.000000E+02	1.8552115E+04	9.673275E+01	3.38E+00	5.390221E-03
A1254 250 PPB	PC101111	Y	2.500000E+02	4.2878062E+04	2.614567E+02	-4.38E+00	5.830487E-03
A1254 500 PPB	PC101112	Y	5.000000E+02	7.5945773E+04	4.853758E+02	3.01E+00	6.583645E-03
A1254 750 PPB	PC101113	Y	7.500000E+02	1.1625893E+05	7.583577E+02	-1.10E+00	6.451117E-03
A1254 1000 PPB	PC101114	Y	1.000000E+03	1.5165997E+05	9.980770E+02	1.93E-01	6.593698E-03

A1254-3 Calibration Report

Printed: 13-OCT-1994 8:39:41

Quant Basis: Area

Rejection Tolerance: None

Internal Standard: None

Curve Type: Linear

Weighting: None

Forced Through Origin: No

Y-axis Label: Concentration

Corr. Coef. (r): 0.9990572

Coeff. of Determination (r^2): 0.9981154

$$\text{Equation: Conc} = -4.491983\text{E}+01 + 1.400642\text{E}-02 * R$$

Sample	File Name	Valid	Concentration	Response	Calc'd Concentration	% Deviation	Response Factor
A1254 100 PPB	PC101110	Y	1.000000E+02	1.0810473E+04	1.064962E+02	-6.10E+00	9.250289E-03
A1254 250 PPB	PC101111	Y	2.500000E+02	2.1352771E+04	2.541561E+02	-1.64E+00	1.170808E-02
A1254 500 PPB	PC101112	Y	5.000000E+02	3.7133605E+04	4.751890E+02	5.22E+00	1.346489E-02
A1254 750 PPB	PC101113	Y	7.500000E+02	5.8023773E+04	7.677855E+02	-2.32E+00	1.292574E-02
A1254 1000 PPB	PC101114	Y	1.000000E+03	7.4363977E+04	9.963731E+02	3.64E-01	1.345099E-02

A1254-2 Calibration Report

Printed: 13-OCT-1994 8:39:35

Quant Basis: Area
 Curve Type: Linear
 Y-axis Label: Concentration
 Corr. Coef. (r): 0.9992054

Rejection Tolerance: None
 Weighting: None

Coeff. of Determination (r^2): 0.9984113

Equation: Conc = -2.283068E+01 + 4.699837E-03 * R

Internal Standard: None
 Forced Through Origin: No

<u>Sample</u>	<u>File Name</u>	<u>Valid</u>	<u>Concentration</u>	<u>Response</u>	<u>Calc'd Concentration</u>	<u>% Deviation</u>	<u>Response Fa</u>
A1254 100 PPB	PC101110	Y	1.000000E+02	2.5402074E+04	9.655494E+01	3.57E+00	3.936686E
A1254 250 PPB	PC101111	Y	2.500000E+02	5.9469996E+04	2.566686E+02	-2.60E+00	4.203801E
A1254 500 PPB	PC101112	Y	5.000000E+02	1.0847413E+05	4.869801E+02	2.67E+00	4.609394E
A1254 750 PPB	PC101113	Y	7.500000E+02	1.6908114E+05	7.718232E+02	-2.83E+00	4.435740E
A1254 1000 PPB	PC101114	Y	1.000000E+03	2.1507209E+05	9.879732E+02	1.22E+00	4.649604

A1254-4 Calibration Report

Printed: 13-OCT-1994 8:42:57

Quant Basis: Area
Curve Type: Linear
Y-axis Label: Concentration
Corr. Coef. (r): 0.9998702

Rejection Tolerance: None
Weighting: None
Coef. of Determination (r^2): 0.9997405

Internal Standard: None
Forced Through Origin: No

$$\text{Equation: Conc} = -1.082309E+01 + 5.524503E-03 * R$$

Sample	File Name	Valid	Concentration	Response	Calc'd Concentration	% Deviation	Response Factor
A1254 100 PPB	PC101110	Y	1.000000E+02	2.0092635E+04	1.001787E+02	-1.78E-01	4.976948E-03
A1254 250 PPB	PC101111	Y	2.500000E+02	4.7512969E+04	2.516624E+02	-6.61E-01	5.261721E-03
A1254 500 PPB	PC101112	Y	5.000000E+02	9.1221250E+04	4.931289E+02	1.39E+00	5.481179E-03
A1254 750 PPB	PC101113	Y	7.500000E+02	1.3928634E+05	7.586647E+02	-1.14E+00	5.384591E-03
A1254 1000 PPB	PC101114	Y	1.000000E+03	1.8231295E+05	9.963653E+02	3.65E-01	5.485074E-03

A1254-5 Calibration Report

Printed: 13-OCT-1994 8:43:01

Quant Basis: Area Rejection Tolerance: None
Curve Type: Linear Weighting: None
Y-axis Label: Concentration
Corr. Coef. (r): 0.9986971 Coef. of Determination (r^2): 0.9973959

Internal Standard: None
Forced Through Origin: No

$$\text{Equation: Conc} = -1.032594\text{E+01} + 3.307862\text{E-03} * R$$

Sample	File Name	Valid	Concentration	Response	Calc'd Concentration	% Deviation	Response Factor
A1254 100 PPB	PC101110	Y	1.000000E+02	3.5906105E+04	1.084465E+02	-7.79E+00	2.785042E-03
A1254 250 PPB	PC101111	Y	2.500000E+02	7.1726047E+04	2.269340E+02	1.02E+01	3.485484E-03
A1254 500 PPB	PC101112	Y	5.000000E+02	1.5820859E+05	5.130063E+02	-2.54E+00	3.160385E-03
A1254 750 PPB	PC101113	Y	7.500000E+02	2.3539545E+05	7.683298E+02	-2.39E+00	3.186128E-03
A1254 1000 PPB	PC101114	Y	1.000000E+03	3.0037803E+05	9.832833E+02	1.70E+00	3.329138E-03

DBC Calibration Report

Printed: 13-OCT-1994 8:43:06

Quant Basis: Area Rejection Tolerance: None
Curve Type: Linear Weighting: None
Y-axis Label: Concentration
Corr. Coef. (r): 0.9986237 Coef. of Determination (r^2): 0.9972494

Internal Standard: None
Forced Through Origin: No

Equation: Conc = -8.907399E+00 + 1.066208E-04 * R

Sample	File Name	Valid	Concentration	Response	Calc'd Concentration	% Deviation	Response Factor
A1254 100 PPB	PC101110	Y	2.000000E+01	3.1879672E+05	2.508296E+01	-2.03E+01	6.273590E-05
A1254 250 PPB	PC101111	Y	5.000000E+01	5.0345916E+05	4.477181E+01	1.17E+01	9.931292E-05
A1254 500 PPB	PC101112	Y	1.000000E+02	1.0066067E+06	9.841781E+01	1.61E+00	9.934366E-05
A1254 750 PPB	PC101113	Y	1.500000E+02	1.5065592E+06	1.517231E+02	-1.14E+00	9.956462E-05
A1254 1000 PPB	PC101114	Y	2.000000E+02	1.9593896E+06	2.000043E+02	-2.14E-03	1.020726E-04

A1260-1 Calibration Report

Printed: 12-OCT-1994 14:22:42

Quant Basis: Area Rejection Tolerance: None Internal Standard: None
Curve Type: Linear Weighting: None Forced Through Origin: No
Y-axis Label: Concentration
Corr. Coef. (r): 0.9994029 Coef. of Determination (r^2): 0.9988062

Equation: Conc = -4.793359E+01 + 8.738702E-03 * R

Sample	File Name	Valid	Concentration	Response	Calc'd Concentration	% Deviation	Response Factor
A1260 100 PPB	PC101115	Y	1.000000E+02	1.5482619E+04	8.736441E+01	1.45E+01	6.458856E-03
A1260 250 PPB	PC101116	Y	2.500000E+02	3.4627254E+04	2.546637E+02	-1.83E+00	7.219747E-03
A1260 500 PPB	PC101117	Y	5.000000E+02	6.4950285E+04	5.196476E+02	-3.78E+00	7.698196E-03
A1260 750 PPB	PC101118	Y	7.500000E+02	9.0709180E+04	7.447469E+02	7.05E-01	8.268182E-03
A1260 1000 PPB	PC101119	Y	1.000000E+03	1.1918370E+05	9.935773E+02	6.46E-01	8.390409E-03

A1260-2 Calibration Report

Printed: 12-OCT-1994 14:22:52

Quant Basis: Area Rejection Tolerance: None Internal Standard: None
Curve Type: Linear Weighting: None Forced Through Origin: No
Y-axis Label: Concentration
Corr. Coef. (r): 0.9997375 Coef. of Determination (r^2): 0.9994751

Equation: Conc = -3.540472E+01 + 3.877737E-03 * R

Sample	File Name	Valid	Concentration	Response	Calc'd Concentration	% Deviation	Response Factor
A1260 100 PPB	PC101115	Y	1.000000E+02	3.2847742E+04	9.197018E+01	8.73E+00	3.044349E-03
A1260 250 PPB	PC101116	Y	2.500000E+02	7.4714695E+04	2.543192E+02	-1.70E+00	3.346062E-03
A1260 500 PPB	PC101117	Y	5.000000E+02	1.4118044E+05	5.120559E+02	-2.35E+00	3.541567E-03
A1260 750 PPB	PC101118	Y	7.500000E+02	2.0072580E+05	7.429571E+02	9.48E-01	3.736441E-03
A1260 1000 PPB	PC101119	Y	1.000000E+03	2.6667678E+05	9.986977E+02	1.30E+01	3.749858E-03

A1260-3 Calibration Report

Printed: 12-OCT-1994 14:23:00

Quant Basis: Area Rejection Tolerance: None Internal Standard: None
Curve Type: Linear Weighting: None Forced Through Origin: No
Y-axis Label: Concentration
Corr. Coef. (r): 0.9998252 Coef. of Determination (r^2): 0.9996504

Equation: Conc = -3.453391E+01 + 5.996402E-03 * R

Sample	File Name	Valid	Concentration	Response	Calc'd Concentration	% Deviation	Response Factor
A1260 100 PPB	PC101115	Y	1.000000E+02	2.1638492E+04	9.521919E+01	5.02E+00	4.621394E-03
A1260 250 PPB	PC101116	Y	2.500000E+02	4.8792086E+04	2.580430E+02	-3.12E+00	5.123782E-03
A1260 500 PPB	PC101117	Y	5.000000E+02	8.9368023E+04	5.013527E+02	-2.70E-01	5.594842E-03
A1260 750 PPB	PC101118	Y	7.500000E+02	1.2935355E+05	7.411219E+02	1.20E+00	5.798063E-03
A1260 1000 PPB	PC101119	Y	1.000000E+03	1.7323673E+05	1.004263E+03	-4.25E-01	5.772448E-03

A1260-4 Calibration Report

Printed: 12-OCT-1994 14:23:04

Quant Basis: Area Rejection Tolerance: None Internal Standard: None
Curve Type: Linear Weighting: None Forced Through Origin: No
Y-axis Label: Concentration
Corr. Coef. (r): 0.9992579 Coef. of Determination (r^2): 0.9985164

Equation: Conc = -4.141777E+01 + 5.656322E-03 * R

Sample	File Name	Valid	Concentration	Response	Calc'd Concentration	% Deviation	Response Factor
A1260 100 PPB	PC101115	Y	1.000000E+02	2.4172191E+04	9.530792E+01	4.92E+00	4.136985E-03
A1260 250 PPB	PC101116	Y	2.500000E+02	5.0084098E+04	2.418740E+02	3.36E+00	4.991604E-03
A1260 500 PPB	PC101117	Y	5.000000E+02	1.0014765E+05	5.250495E+02	-4.77E+00	4.992628E-03
A1260 750 PPB	PC101118	Y	7.500000E+02	1.3891559E+05	7.443335E+02	7.61E-01	5.398962E-03
A1260 1000 PPB	PC101119	Y	1.000000E+03	1.8295511E+05	9.934352E+02	6.61E-01	5.465822E-03

A1260-5 Calibration Report

Printed: 12-OCT-1994 14:23:09

Quant Basis: Area Rejection Tolerance: None Internal Standard: None
Curve Type: Linear Weighting: None Forced Through Origin: No
Y-axis Label: Concentration
Corr. Coef. (r): 0.9996290 Coef. of Determination (r^2): 0.9992582

Equation: Conc = -1.366187E+01 + 6.375685E-03 * R

Sample	File Name	Valid	Concentration	Response	Calc'd Concentration	% Deviation	Response Factor
A1260 100 PPB	PC101115	Y	1.000000E+02	1.7256668E+04	9.636122E+01	3.78E+00	5.794861E-03
A1260 250 PPB	PC101116	Y	2.500000E+02	4.3505461E+04	2.637153E+02	-5.20E+00	5.746405E-03
A1260 500 PPB	PC101117	Y	5.000000E+02	7.8427617E+04	4.863679E+02	2.80E+00	6.375305E-03
A1260 750 PPB	PC101118	Y	7.500000E+02	1.1990263E+05	7.507996E+02	-1.06E-01	6.255075E-03
A1260 1000 PPB	PC101119	Y	1.000000E+03	1.5942095E+05	1.002756E+03	-2.75E-01	6.272701E-03

DBC Calibration Report

Printed: 12-OCT-1994 14:23:27

Quant Basis: Area
 Curve Type: Linear
 Y-axis Label: Concentration
 Corr. Coef. (r): 0.9985071

Rejection Tolerance: None
 Weighting: None

Internal Standard: None
 Forced Through Origin: No

Coef. of Determination (r^2): 0.9970164

$$\text{Equation: Conc} = -7.336381\text{E}+00 + 2.056751\text{E}-04 * R$$

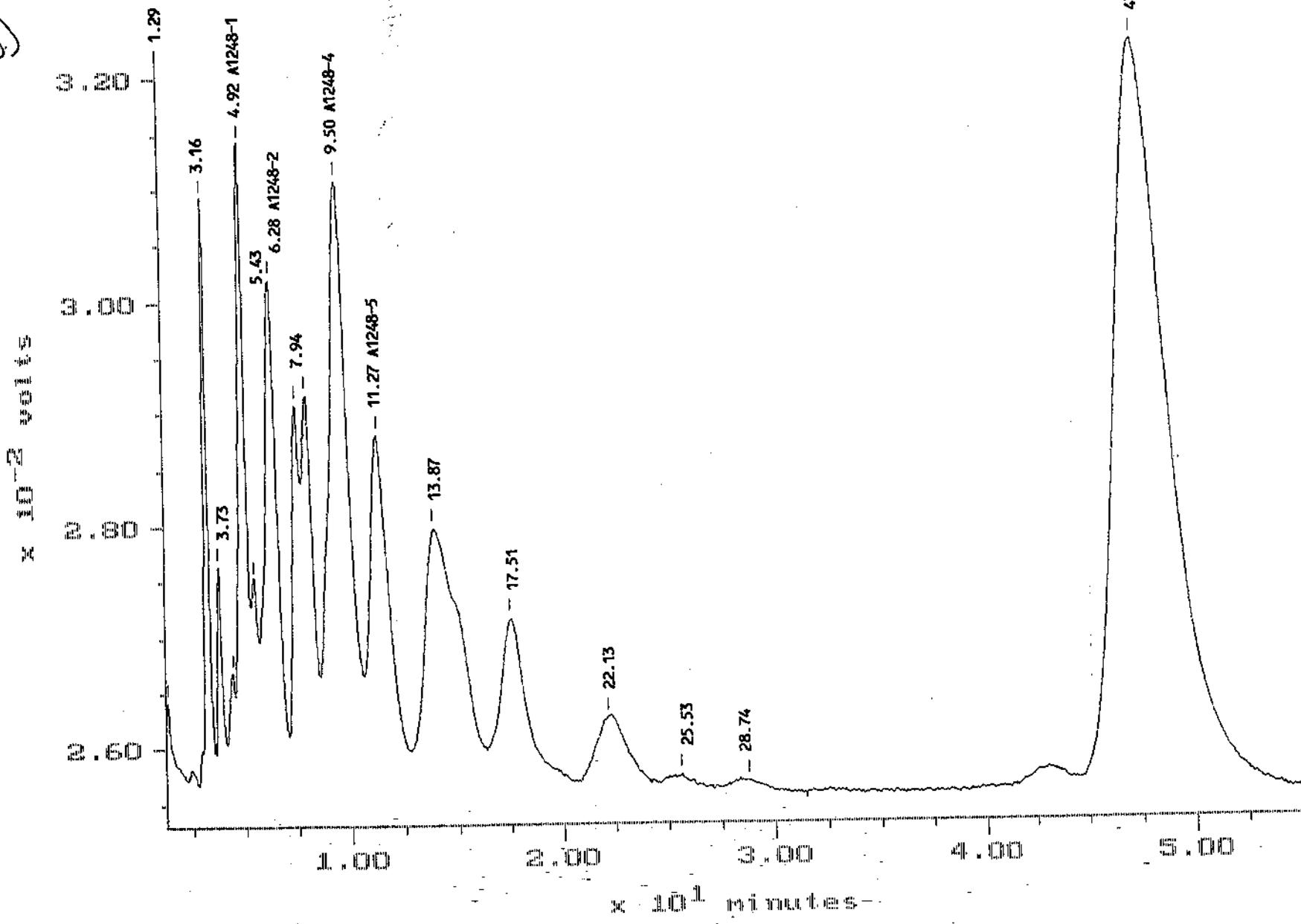
<u>Sample</u>	<u>File Name</u>	<u>Valid</u>	<u>Concentration</u>	<u>Response</u>	<u>Calc'd Concentration</u>	<u>% Deviation</u>	<u>Response F</u>
A1260 100 PPB	PC101115	Y	2.000000E+01	1.6025280E+05	2.562363E+01	-2.19E+01	1.248028E
A1260 250 PPB	PC101116	Y	5.000000E+01	2.5808134E+05	4.574453E+01	9.30E+00	1.937374E
A1260 500 PPB	PC101117	Y	1.000000E+02	5.0542544E+05	9.661706E+01	3.50E+00	1.978531E
A1260 750 PPB	PC101118	Y	1.500000E+02	7.6769500E+05	1.505594E+02	-3.72E-01	1.953901E
A1260 1000 PPB	PC101119	Y	2.000000E+02	1.0151532E+06	2.014554E+02	-7.22E-01	1.970146

Sample: A1248 500 PPB Channel: detector 1
Acquired: 20-OCT-94 22:57 Method: c:\MAX\DATA2\PC10-20
Comments: PE3500 1.5%SP2250/1.95%SP2401 SUPERCOPO RT 6FT X 4mm ID 5ul A/S INJ

Filename: PC102009

Operator: MAB

OC



MAXIMA 820 CUSTOM REPORT

Printed: 21-OCT-1994 12:55:30

SAMPLE: A1248 500 PPB

#12, in Method: A1260 CALIBRATION PE8500

Acquired: 20-OCT-1994 22:57

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: UNKN
 Instrument: Instrument 2
 Filename: PC102009
 Index: Disk

DETECTOR: detector 1

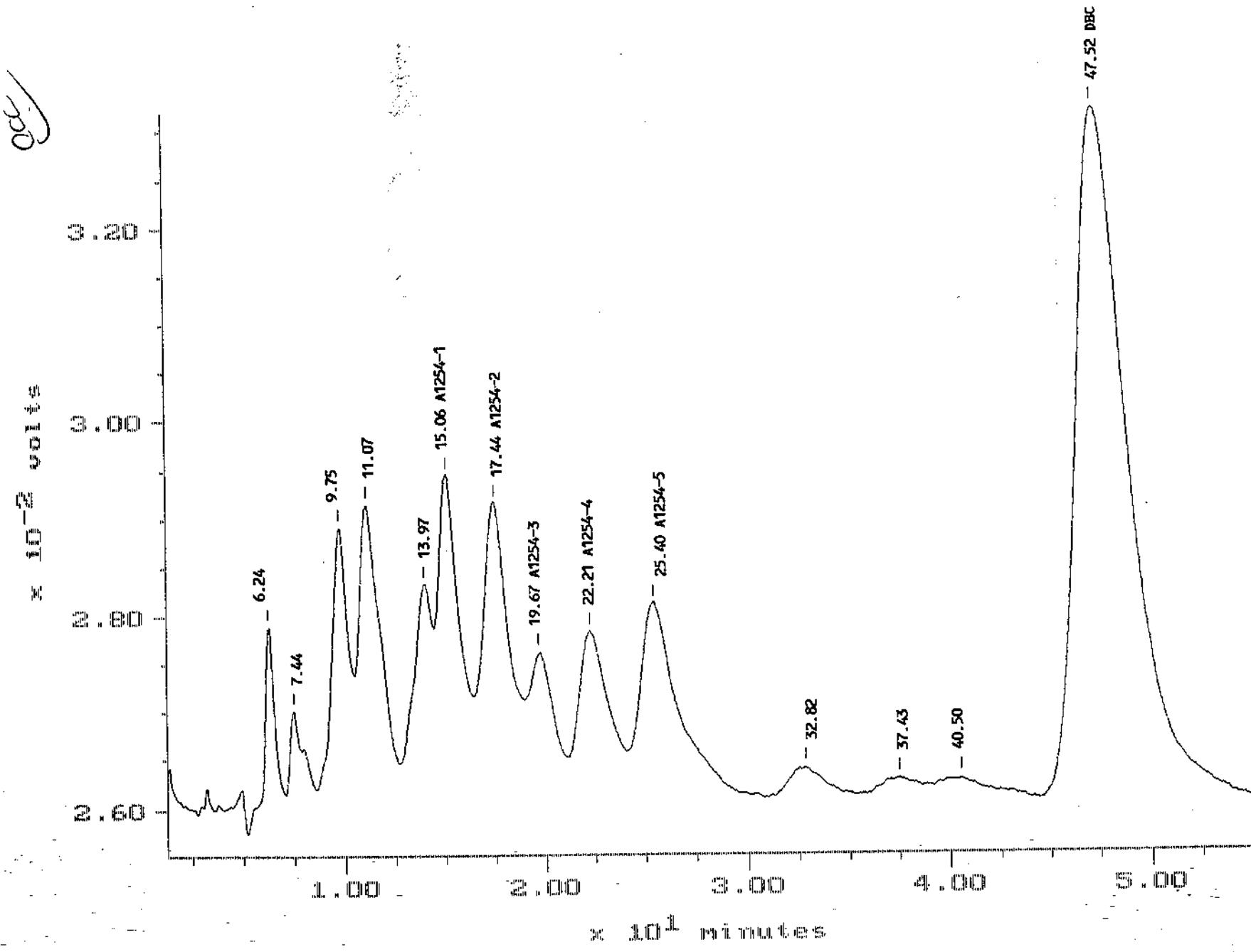
PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		1.287	DB	753	18783	1.05				
2		3.157	BP	4961	61981	3.47				
3		3.730	PB	1641	21922	1.23				
4		4.330	BB	370	4851	0.27				
5	1	4.923	BB	3685	56722	3.18	EXT	AREA	592.06	A1248-1
6		5.430	BB	390	4413	0.25				
7	2	6.280	BB	3263	98740	5.53	EXT	AREA	533.82	A1248-2
8	3	7.443	BP	1559	29920	1.68	EXT	AREA	500.87	A1248-3
9		7.943	PB	1325	31062	1.74				
10	4	9.497	BB	3173	122581	6.87	EXT	AREA	535.65	A1248-4
11	5	11.270	BB	2376	120229	6.74	EXT	AREA	528.05	A1248-5
12		13.867	BB	1229	64683	3.63				
13		17.507	BB	1255	93163	5.22				
14		22.133	BB	531	48402	2.71				
15		25.530	BB	93	5972	0.33				
16		28.737	BB	114	15790	0.89				
17	6	47.430	BB	6288	984723	55.20	EXT	AREA	92.26	DBC
TOTAL				33003	1783938				2782.71	

107.6

102

Sample: A1254 500 PPB Channel: detector 1
Acquired: 20-OCT-94 23:52 Method: C:\MAX\DATA2\PC10-20
Comments: PE8500 1.5%SP220/1.95%SP2401 SUPELCOPORT 6FT X 4mm ID 5ul A/S INJ

File#ee: PC102010
Operator: MAS



MAXIMA 820 CUSTOM REPORT

Printed: 21-OCT-1994 12:59:06

SAMPLE: A1254 500 PPB

#25 in Method: A1260 CALIBRATION PE8500

Acquired: 20-OCT-1994 23:52

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: UNKN

Instrument: Instrument 2

Filename: PC102010

Index: Disk

DETECTOR: detector 1

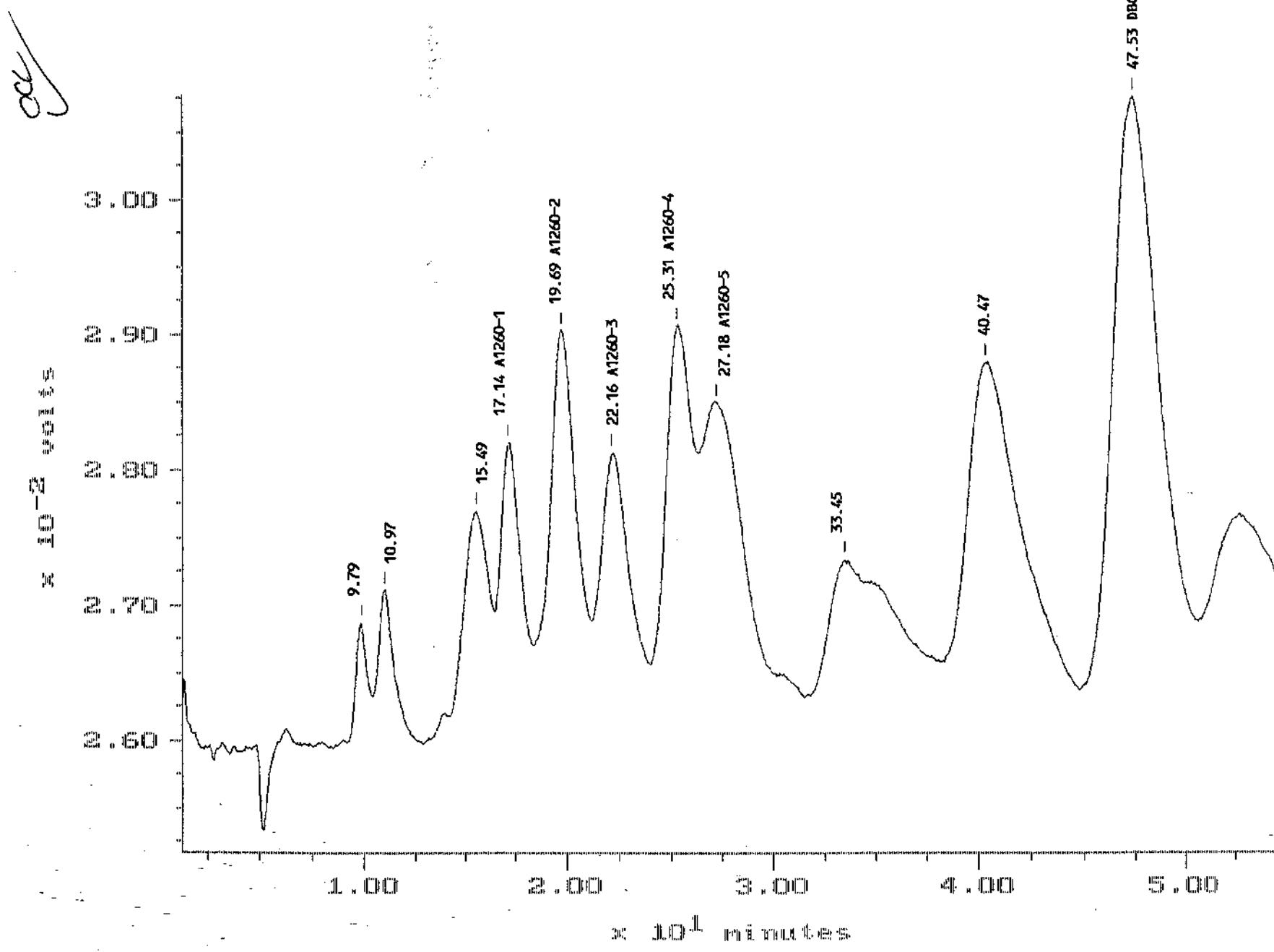
PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc.	Component Name
1		6.237	BP	1799	51725	2.65				
2		7.443	PP	841	33581	1.72				
3		9.747	PP	1948	80599	4.14				
4		11.073	PP	2019	119774	6.15				
5		13.973	PB	793	32760	1.68				
6	1	15.057	BB	1791	87230	4.48	EXT	AREA	561.79	A1254-1
7	2	17.437	BB	1980	122770	6.30	EXT	AREA	554.17	A1254-2
8	3	19.673	BB	699	39542	2.03	EXT	AREA	508.92	A1254-3
9	4	22.207	BB	1271	101891	5.23	EXT	AREA	552.07	A1254-4
10	5	25.403	BB	1627	176448	9.05	EXT	AREA	573.34	A1254-5
11		32.817	BB	292	31623	1.62				
12		37.433	BB	113	9693	0.50				
13		40.503	BB	108	15200	0.78				
14	6	47.520	BB	6689	1046042	53.67	EXT	AREA	102.62	DBC
TOTAL				21971	1948879				2852.91	

110.0

104

Sample: A1260 500 PPB Channel: detector 1
Acquired: 21-OCT-94 0:47 Method: C:\MAX\DATA2\PC10-20
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPERCOPT 6FT X 4mm ID 5UL A/S INJ

Filenumber: PC102011
Operator: HAS



MAXIMA 820 CUSTOM REPORT

Printed: 21-OCT-1994 12:35:54

SAMPLE: A1260 500 PPB

#16 in Method: A1260 CALIBRATION PE8500

Acquired: 21-OCT-1994 0:47

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: UNKN

Instrument: Instrument 2

Filename: PC102011

Index: Disk

DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		9.793	BP	689	20011	1.11				
2		10.973	PB	880	37876	2.10				
3		15.490	BP	1070	73068	4.05				
4	1	17.140	PP	1339	70374	3.90	EXT	AREA	567.05	A1260-1
5	2	19.690	PP	2247	156214	8.65	EXT	AREA	570.35	A1260-2
6	3	22.157	PB	1356	100170	5.55	EXT	AREA	566.13	A1260-3
7	4	25.310	BB	1625	106829	5.92	EXT	AREA	562.84	A1260-4
8	5	27.180	BB	779	83214	4.61	EXT	AREA	516.89	A1260-5
9		33.450	BB	931	173056	9.59				
10		40.473	BP	2280	380887	21.10				
11	6	47.530	PB	4126	603658	33.44	EXT	AREA	116.82	DBC
TOTAL				17322	1805358				2900.08	

111.3

MAXIMA 820 CUSTOM REPORT

Printed: 24-OCT-1994 15:45:20

SAMPLE: A1248 500 PPB
 #14 in Method: A1260 CALIBRATION PE8500
 Acquired: 22-OCT-1994 0:59
 Rate: 5.0 points/sec
 Duration: 55.000 minutes
 Operator: MAB

Type: UNKN
 Instrument: Instrument 2
 Filename: PC102101
 Index: Disk

DETECTOR: detector 1

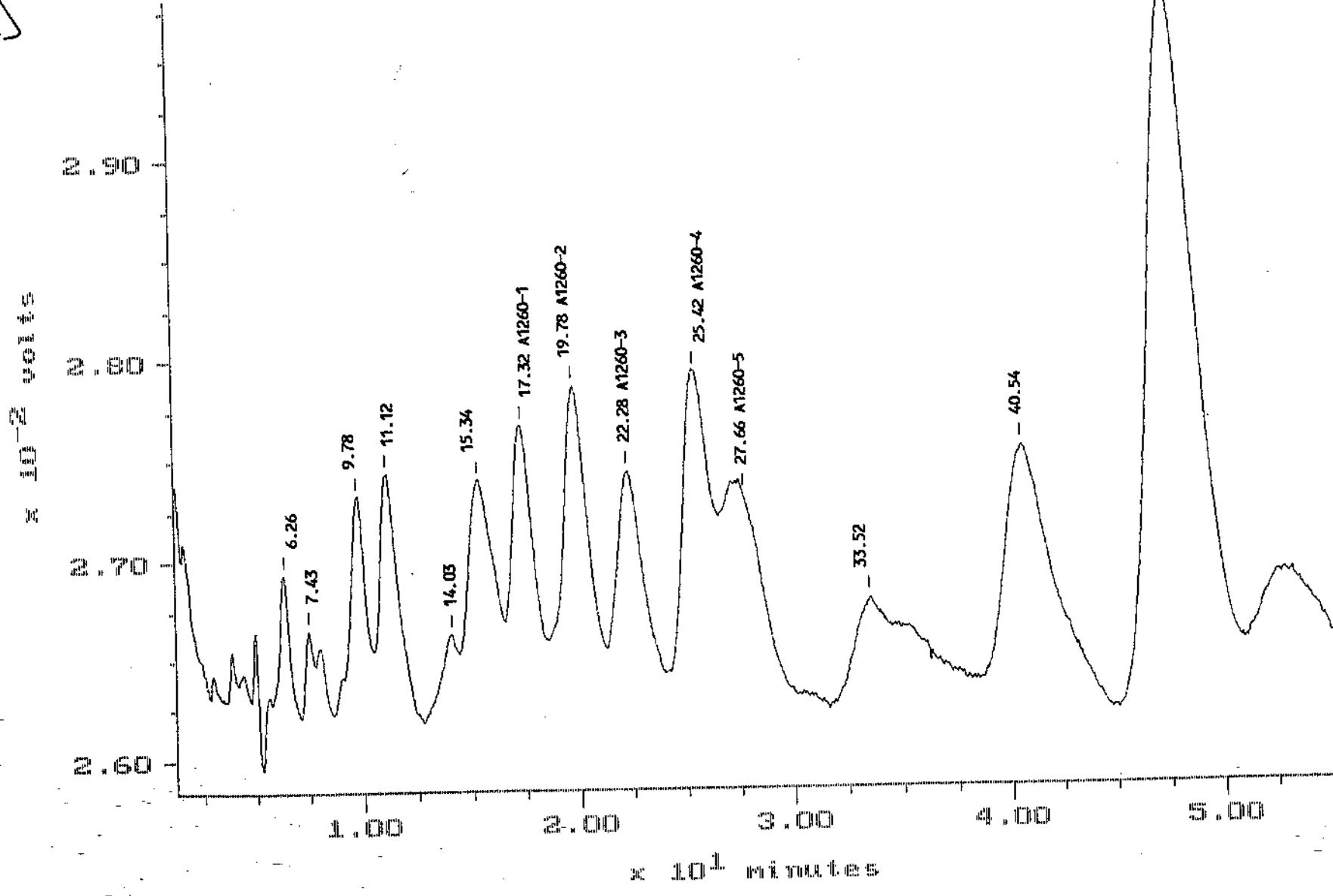
PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		1.300	DB	1461	36366	2.28				
2		3.757	BP	1480	20167	1.26				
3		4.360	PP	511	8290	0.52				
4	1	4.950	PB	2785	43151	2.71	EXT	AREA	450.96	A1248-1
5		5.470	BP	434	5327	0.33				
6	2	6.330	PP	2965	96143	6.03	EXT	AREA	519.40	A1248-2
7	3	7.490	PP	1271	23846	1.50	EXT	AREA	395.72	A1248-3
8		8.000	PB	1131	24838	1.56				
9		8.923	BP	266	3547	0.22				
10	4	9.617	PP	2426	93544	5.87	EXT	AREA	402.60	A1248-4
11	5	11.327	PB	2125	106211	6.66	EXT	AREA	465.00	A1248-5
12		14.080	BP	290	14312	0.90				
13		15.110	PP	466	20845	1.31				
14		17.497	PP	592	41979	2.63				
15		19.647	PB	60	2312	0.14				
16		22.450	BP	412	32563	2.04				
17		25.463	PP	58	2184	0.14				
18		25.883	PB	11	647	0.04				
19		43.043	BP	116	17388	1.09				
20	6	47.683	PB	5863	1000904	62.77	EXT	AREA	93.94	DBC
TOTAL				24722	1594563				2327.63	

89.3%

Sample: A1260 500 PPB Channel: detector 1
Acquired: 22-OCT-94 2:49 Method: C:\MAX\DATA2\PC10-21
Comments: PE3500 1.5%SP2250/1.95%SP2401 SUPERCOPT 6FT X 4mm ID 5ul A/S INJ

Filtername: PC102103
Operator: MAB

CCC



MAXIMA 820 CUSTOM REPORT

Printed: 24-OCT-1994 15:12:42

SAMPLE: A1260 500 PPB
 #18 in Method: A1260 CALIBRATION PE8500
 Acquired: 22-OCT-1994 2:49
 Rate: 5.0 points/sec
 Duration: 55.000 minutes
 Operator: MAB

Type: UNKN
 Instrument: Instrument 2
 Filename: PC102103
 Index: Disk

DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		6.263	BP	680	21255	1.80				
2		7.433	PB	288	5156	0.44				
3		9.780	BP	844	31546	2.67				
4		11.120	PB	997	51143	4.32				
5		14.027	BP	169	6083	0.51				
6		15.340	PP	796	50829	4.30				
7	1	17.323	PP	1026	56664	4.79	EXT	AREA	447.23	A1260-1
8	2	19.777	PP	1287	85889	7.26	EXT	AREA	297.65	A1260-2
9	3	22.280	PB	937	69493	5.87	EXT	AREA	382.18	A1260-3
10	4	25.420	BP	1176	95375	8.06	EXT	AREA	498.05	A1260-4
11	5	27.660	PB	8	1982	0.17	EXT	AREA	Invalid	A1260-5
12		33.520	BB	287	21593	1.83				
13		40.543	BB	1212	188168	15.91				
14	6	47.597	BB	3400	497732	42.08	EXT	AREA	95.03	DBC
TOTAL				13107	1182908				1720.15	

86.0%

METALS INITIAL AND CONTINUING CALIBRATION SUMMARIES

ANALAB INC.

205 Campus Plaza 1, Raritan Center, Edison, NJ 08837, Tel. (908) 225-4111, Fax: (908) 225-4110

METALS INITIAL AND CONTINUING CALIBRATION SUMMARY

Graphite Furnace Atomic Absorption Analyte: Sb

Instrument ID: P&E 4100 ZL
 Analyst: DR
 Authorized by: ES

Page 1 of 2.

Initial Calibration Date: 10/26/94
 Initial Calibration Time: 18:08

INITIAL CALIBRATION STANDARDS: CONCENTRATION UNITS UG/L

Cal. Blank	Std 1	Std 2	Std 3	Std 4	Std 5
<u>0.0</u>	<u>10.0</u>	<u>25.0</u>	<u>50.0</u>	<u>75.0</u>	<u>100.0</u>
Correlation:	<u>0.99859</u>				

INITIAL CALIBRATION VERIFICATION: (ICV). Source Lot# 1-SB-0172 Inorganic Vent.
 TRUE VALUE UG/L FOUND VALUE UG/L %RECOVERY QC LIMIT Vent.
60.0 60.9 102.0 90-110

CONTINUING CALIBRATION VERIFICATION: (CCV) Source Lab Lot# 1-SB-0172 Vent.
 CCV# TRUE VALUE UG/L FOUND VALUE UG/L % REC. QC LIMIT Q
 CCV1 60.0 64.6 108.0 90-110 X
 CCV2 ↓ 63.2 105.0 90-110 X
 CCV3 ↓ 63.6 106.0 90-110 X
 CCV4 _____
 CCV5 _____
 CCV6 _____
 CCV7 _____
 CCV8 _____
 CCV9 _____
 CCV10 _____

* METALS INITIAL & CONTINUING CALIBRATION BLANK SUMMARY *

PREPARATION BLANKS: AQUEOUS UNITS UG/L, TCLP MG/L, SOLID MG/KG
 METHOD DETECTION LIMIT: 10.0 NA 1.0
 NOTE: Preparation Blanks for solids are prepared using blank matrix.

INITIAL CALIBRATION BLANK: (ICB) MATRIX: AQUEOUS UNITS UG/L

RESULT: 0.0 UG/L.

CONTINUING CALIBRATION BLANK: (CCB) MATRIX AQUEOUS, UNITS UG/L

CCB#	RESULT UG/L	RESULT UG/L	RESULT UG/L
CCB1	<u>0.0</u>	CCB5	CCB9
CCB2	<u>0.0</u>	CCB6	CCB10
CCB3	<u>0.0</u>	CCB7	CCB11
CCB4	_____	CCB8	CCB12

THIS SUMMARY APPLIES TO THE FOLLOWING BLANKS, STANDARDS AND SAMPLES
 LISTED ON PAGE 2. OF 2. OF THIS SUMMARY

ANALAB INC.

205 Campus Plaza 1, Raritan Center, Edison, NJ 08837, Tel: (908) 225-4111, Fax: (908) 225-4110

METALS INITIAL AND CONTINUING CALIBRATION SUMMARY AND METALS INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Graphite Furnace Atomic Absorption Analyte: Sb

Instrument ID: P&E 410021
Analyst: DR
Authorized by: RS

Page 2. of 2.

Initial Calibration Date: 10/26/94
Initial Calibration Time: 18:08

THIS SUMMARY APPLIES TO THE FOLLOWING BLANKS, STANDARDS AND SAMPLES

<u>Cal. Blank</u>	<u>MSD281AA94-10-305-7MS</u>	
<u>Std 1. (10.0 ug/L)</u>	<u>-7</u>	
<u>Std 2. (25.0 ug/L)</u>	<u>-8</u>	
<u>Std 3. (50.0 ug/L)</u>	<u>94-10-340-1</u>	
<u>Std 4. (75.0 ug/L)</u>	<u>-235-5</u>	
<u>Std 5. (100.0 ug/L)</u>	<u>-266-6</u>	
<u>NB 281AA Blank</u>	<u>-266-8</u>	
<u>BS 281AA Blank spike</u>	<u>-172-1</u>	
<u>MS 281AA 94-10-294-2MS</u>	<u>-172-2</u>	
<u>MSD 281AA</u>	<u>-2MSD</u>	
	<u>↓ -2</u>	
<u>MB 283AA Blank</u>		
<u>BS 283AA Blank spike</u>		
<u>MS 283AA 94-10-294-2MS</u>		
<u>MSD 283AA</u>	<u>-2MSD</u>	
	<u>↓ -2 DISS</u>	
<u>NB 284AA Blank</u>		
<u>BS 284AA Blank spike</u>		
<u>MS 284AA 94-10-305-7MS</u>		

QUALITY CONTROL SUMMARY REPORTS

GC/MS VOLATILE ORGANICS

ANALAB Inc. Volatile Method Blank GC/MS - Non-Aqueous Matrix

CLIENT : N/A
 SAMPLE ID: LABORATORY BLANK
 PROJECT: N/A
 SAMPLE VOL.: 1G
 DATA FILE : >A4369
 EXTRACT/DATE : N/A
 NJDEP LAB ID : 12531

LAB SAMPLE ID : QVBL:A4369
 DATE SAMPLED: N/A
 DATE RECEIVED: N/A
 DATE ANALYZED: 10/14/94
 DIL. FACT : 5.00
 ANALYST: MR/JT

CAS #	COMPOUND	UG/KG	Q	MDL
74-87-3	CHLOROMETHANE	U		50
74-83-9	BROMOMETHANE	U		50
75-01-4	VINYL CHLORIDE	U		50
75-00-3	CHLOROETHANE	U		50
75-09-2	METHYLENE CHLORIDE	U		25
67-64-1	ACETONE	U		500
75-15-0	CARBON DISULFIDE	U		25
75-35-4	1,1-DICHLOROETHENE	U		25
75-34-3	1,1-DICHLOROETHANE	U		25
156-60-5	TRANS-1,2-DICHLOROETHENE	U		25
156-59-2	CIS-1,2-DICHLOROETHENE	U		25
67-66-3	CHLOROFORM	U		25
107-06-2	1,2-DICHLOROETHANE	U		25
78-93-3	2-BUTANONE	U		500
71-55-6	1,1,1-TRICHLOROETHANE	U		25
56-23-5	CARBON TETRACHLORIDE	U		25
108-05-4	VINYL ACETATE	U		250
75-27-4	BROMODICHLOROMETHANE	U		25
78-87-5	1,2-DICHLOROPROPANE	U		25
79-01-6	TRICHLOROETHENE	U		25
71-43-2	BENZENE	U		25
10061-015	CIS-1,3-DICHLOROPROPENE	U		25
124-48-1	DIBROMOCHLOROMETHANE	U		25
10061-026	TRANS-1,3-DICHLOROPROPENE	U		25
110-75-8	2-CHLOROETHYL VINYL ETHER	U		50
79-00-5	1,1,2-TRICHLOROETHANE	U		25
75-25-2	BROMOFORM	U		25
108-10-1	4-METHYL-2-PENTANONE	U		250
591-78-6	2-HEXANONE	U		250
79-34-5	1,1,2,2-TETRACHLOROETHANE	U		25
127-18-4	TETRACHLOROETHENE	U		25
108-88-3	TOLUENE	U		25
108-90-7	CHLOROBENZENE	U		25
100-41-4	ETHYLBENZENE	U		25
100-42-5	STYRENE	U		25
1330-20-7	M/P-XYLENE	U		25
95-47-6	O-XYLENE	U		25
1634-04-4	METHYL TERT-BUTYL ETHER	U		25
75-65-0	TERT-BUTYL ALCOHOL	U		250

QUALIFIERS

J Indicates detected below MDL, Estimated Value
 U Indicates compound not detected

TABLE 1 : QUALITATIVE RESULTS
TENTATIVELY IDENTIFIED ORGANIC COMPOUNDS
GC/MS ANALYSIS DATA SOIL FRACTION

LAB SAMPLE NUMBER : QVBL:A4369

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 0

ANALAB Inc. Volatile Method Blank GC/MS - Non-Aqueous Matrix

CLIENT : N/A
 SAMPLE ID: LABORATORY BLANK
 PROJECT: N/A
 SAMPLE VOL. : 1G
 DATA FILE : >A4392
 EXTRACT/DATE : N/A
 NJDEP LAB ID : 12531

LAB SAMPLE ID : QVBL:A4392
 DATE SAMPLED: N/A
 DATE RECEIVED: N/A
 DATE ANALYZED: 10/15/94
 DIL. FACT : 5.00
 ANALYST: MR/JT

CAS #	COMPOUND	UG/KG	Q	MDL
74-87-3	CHLOROMETHANE	U		50
74-83-9	BROMOMETHANE	U		50
75-01-4	VINYL CHLORIDE	U		50
75-00-3	CHLOROETHANE	U		50
75-09-2	METHYLENE CHLORIDE	U		25
67-64-1	ACETONE	U		500
75-15-0	CARBON DISULFIDE	U		25
75-35-4	1,1-DICHLOROETHENE	U		25
75-34-3	1,1-DICHLOROETHANE	U		25
156-60-5	TRANS-1,2-DICHLOROETHENE	U		25
156-59-2	CIS-1,2-DICHLOROETHENE	U		25
67-66-3	CHLOROFORM	U		25
107-06-2	1,2-DICHLOROETHANE	U		25
78-93-3	2-BUTANONE	U		500
71-55-6	1,1,1-TRICHLOROETHANE	U		25
56-23-5	CARBON TETRACHLORIDE	U		25
108-05-4	VINYL ACETATE	U		250
75-27-4	BROMODICHLOROMETHANE	U		25
78-87-5	1,2-DICHLOROPROPANE	U		25
79-01-6	TRICHLOROETHENE	U		25
71-43-2	BENZENE	U		25
10061-015	CIS-1,3-DICHLOROPROPENE	U		25
124-48-1	DIBROMOCHLOROMETHANE	U		25
10061-026	TRANS-1,3-DICHLOROPROPENE	U		25
110-75-8	2-CHLOROETHYL VINYL ETHER	U		50
79-00-5	1,1,2-TRICHLOROETHANE	U		25
75-25-2	BROMOFORM	U		25
108-10-1	4-METHYL-2-PENTANONE	U		250
591-78-6	2-HEXANONE	U		250
79-34-5	1,1,2,2-TETRACHLOROETHANE	U		25
127-18-4	TETRACHLOROETHENE	U		25
108-88-3	TOLUENE	U		25
108-90-7	CHLOROBENZENE	U		25
100-41-4	ETHYLBENZENE	U		25
100-42-5	STYRENE	U		25
1330-20-7	M/P-XYLENE	U		25
95-47-6	O-XYLENE	U		25
1634-04-4	METHYL TERT-BUTYL ETHER	U		25
75-65-0	TERT-BUTYL ALCOHOL	U		250

QUALIFIERS

J Indicates detected below MDL, Estimated Value
 U Indicates compound not detected

TABLE 1 : QUALITATIVE RESULTS

**TENTATIVELY IDENTIFIED ORGANIC COMPOUNDS
GC/MS ANALYSIS DATA SOIL FRACTION**

LAB SAMPLE NUMBER : QVBL:A4392

Number TICs found: 0

CONCENTRATION UNITS:
($\mu\text{g/L}$ or $\mu\text{g/Kg}$) $\mu\text{g/Kg}$

ANALAB INC. 205 Campus Plaza, Edison, NJ
BLANK SPIKE METHOD 8240

File: ^A4379

Data File:>A4379

Units:ug/*Kg*

Analysis Date/Time: 10/14/94 2355
Analyst: MR

Compound	Spike	Sample	% Rec.	Flag	QC Limits
	Conc	Conc			% Recovery
CHLOROMETHANE	100	49	49		25-273
VINYL CHLORIDE	100	37	37		25-251
BROMOMETHANE	100	63	63		25-242
CHLOROETHANE	100	52	52		14-230
TRICHLOROFLUOROMETHANE	100	48	48		17-181
ACROLEIN	4000	4776	119		50-150
1,1-DICHLOROETHENE	100	49	49		5-234
ACETONE	500	66.9	134		50-150
TERT-BUTYL ALCOHOL	1000	1223	122		50-150
CARBON DISULFIDE	100	49	49	*	50-150
METHYLENE CHLORIDE	100	99	99		10-221
METHYL TERT-BUTYL ETHER	100	113	113		50-150
TRANS-1,2-DICHLOROETHENE	100	67	67		54-156
ACRYLONITRILE	400	534	134		50-150
ISOPROPYL ETHER	100	104	104		50-150
1,1-DICHLOROETHANE	100	73	73		59-155
VINYL ACETATE	100	102	102		50-150
2-BUTANONE	500	646	129		50-150
CIS-1,2-DICHLOROETHENE	100	86	86		50-150
CHLOROFORM	100	88	88		51-138
1,1,1-TRICHLOROETHANE	100	66	66		52-162
CARBON TETRACHLORIDE	100	57	57	*	70-140
BENZENE	100	108	108		37-151
1,2-DICHLOROETHANE	100	143	143		49-155
TRICHLOROETHENE	100	89	89		71-157
1,2-DICHLOROPROPANE	100	132	132		5-210
BROMODICHLOROMETHANE	100	128	128		35-155
1,4-DIOXANE	4000	6592	165	*	50-150
4-METHYL-2-PENTANONE	500	809	162	*	50-150
TRANS-1,3-DICHLOROPROPENE	110	114	104		17-183
TOLUENE	100	93	93		47-150
CIS-1,3-DICHLOROPROPENE	95	96	101		25-227
1,1,2-TRICHLOROETHANE	100	132	132		52-150
2-HEXANONE	500	669	134		50-150
TETRACHLOROETHENE	100	69	69		64-148
DIBROMOCHLOROMETHANE	100	120	120		53-149
1,2-DIBROMOETHANE	100	130	130		50-150
CHLOROBENZENE	100	99	99		37-160
ETHYLBENZENE	100	88	88		37-162
M/P-XYLENE	200	158	79		50-150
O-XYLENE	100	97	97		50-150
STYRENE	100	104	104		50-150
BROMOFORM	100	105	105		45-169
1,1,2,2-TETRACHLOROETHANE	100	132	132		46-157
1,3-DICHLOROBENZENE	100	102	102		59-156
1,4-DICHLOROBENZENE	100	102	102		18-190
1,2-DICHLOROBENZENE	100	115	115		18-190

119

* value outside QC limits

ANALAB INC. 205 Campus Plaza, Edison, NJ
BLANK SPIKE METHOD 8240

File:^A4401
Data File:>A4401
Units:ug/l

Analysis Date/Time:10/15/94 1836
Analyst:MR

Compound	Spike Conc	Sample Conc	% Rec.	Flag	QC Limits	% Recovery
CHLOROMETHANE	1001	85	85		25-273	
VINYL CHLORIDE	1001	88	88		25-291	
BROMOMETHANE	1001	98	98		25-242	
CHLOROETHANE	1001	102	102		14-230	
TRICHLOROFLUOROMETHANE	1001	95	95		17-181	
ACROLEIN	40001	4451	111		50-150	
1,1-DICHLOROETHENE	1001	93	93		5-234	
ACETONE	5001	500	100		50-150	
TERT-BUTYL ALCOHOL	10001	934	93		50-150	
CARBON DISULFIDE	1001	97	97		50-150	
METHYLENE CHLORIDE	1001	107	107		10-221	
METHYL TERT-BUTYL ETHER	1001	110	110		50-150	
TRANS-1,2-DICHLOROETHENE	1001	100	100		54-156	
ACRYLONITRILE	4001	436	109		50-150	
ISOPROPYL ETHER	1001	114	114		50-150	
1,1-DICHLOROETHANE	1001	103	103		59-155	
VINYL ACETATE	1001	101	101		50-150	
2-BUTANONE	5001	541	108		50-150	
CIS-1,2-DICHLOROETHENE	1001	102	102		50-150	
CHLOROFORM	1001	103	103		51-138	
1,1,1-TRICHLOROETHANE	1001	99	99		52-162	
CARBON TETRACHLORIDE	1001	95	95		70-140	
BENZENE	1001	110	110		37-151	
1,2-DICHLOROETHANE	1001	108	108		49-155	
TRICHLOROETHENE	1001	103	103		71-157	
1,2-DICHLOROPROPANE	1001	118	118		5-210	
BROMODICHLOROMETHANE	1001	108	108		35-155	
1,4-DIOXANE	40001	4656	116		50-150	
2-CHLOROETHYL VINYL ETHER	1001	52	52		13-305	
4-METHYL-2-PENTANONE	5001	575	115		50-150	
TRANS-1,3-DICHLOROPROPENE	1101	105	95		17-183	
TOLUENE	1001	109	109		47-150	
CIS-1,3-DICHLOROPROPENE	951	84	88		25-227	
1,1,2-TRICHLOROETHANE	1001	114	114		52-150	
2-HEXANONE	5001	549	110		50-150	
TETRACHLOROETHENE	1001	95	95		64-148	
DIBROMOCHLOROMETHANE	1001	105	105		53-149	
1,2-DIBROMOETHANE	1001	105	105		50-150	
CHLOROBENZENE	1001	106	106		37-160	
ETHYLBENZENE	1001	106	106		37-162	
M/P-XYLENE	2001	162	81		50-150	
D-XYLENE	1001	110	110		50-150	
STYRENE	1001	109	109		50-150	
BROMOFORM	1001	93	93		45-169	
1,1,2,2-TETRACHLOROETHANE	1001	113	113		46-157	
1,3-DICHLOROBENZENE	1001	114	114		59-156	
1,4-DICHLOROBENZENE	1001	117	117		18-190	
1,2-DICHLOROBENZENE	1001	122	122		18-190	

Volatile : 0 Out Of 48 Outside Of Laboratory QC Limits
* Value Outside Of QC Limits

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ANALab inc.

Sample - ANALab File # :^A4395

Level: Soil

Matrix Spike - ANALab File # :^A4399

Sample ID: 94-10-027-4

Matrix Spike Dup - ANALab File # :^A4400

COMPOUNDS	SPIKE	SAMPLE	MS	MS	QC
	ADDED (ug/Kg)	CONCENTRATION (ug/Kg)	CONCENTRATION (ug/Kg)	% REC #	LIMITS REC.
1,1-Dichloroethene	250.00	0.00	253.11	101	59-172
Benzene	250.00	0.00	265.96	106	62-137
Trichloroethene	250.00	0.00	261.16	104	66-142
Toluene	250.00	0.00	252.85	101	59-139
Chlorobenzene	250.00	0.00	254.33	102	60-133

COMPOUNDS	SPIKE	MSD	MSD	%	%	QC LIMITS
	ADDED (ug/Kg)	CONCENTRATION (ug/Kg)	REC #	RPD #	RPD	REC.
1,1-Dichloroethene	250.00	254.05	102	0	22	59-172
Benzene	250.00	262.09	105	1	24	62-137
Trichloroethene	250.00	262.09	105	0	21	66-142
Toluene	250.00	251.88	101	0	21	59-139
Chlorobenzene	250.00	256.71	103	1	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

Comments: _____

ANALAB INC. 205 Campus Plaza 1, Edison, NJ
 VOLATILE ORGANIC SURROGATE PERCENT RECOVERY SUMMARY METHOD(8240)

Project: 94-10-172

Sample Designation	Data File	Matrix	1,2-Dichloro-1Toluene -D8	BFB
		Ethane-D4		
QVBL:A4369	>A43691SOIL	(S)	98	100
QVBL:A4392	>A43921SOIL	(S)	95	97
BLMS.A4401	>A44011SOIL	(S)	103	101
194-10-027-4MS	>A43991SOIL	(S)	100	101
194-10-022-4SD	>A44001SOIL	(S)	96	102
194-10-172-1	>A43841SOIL	(S)	89	99
194-10-172-2	>A43851SOIL	(S)	93	100
BLMS.A 4379	>A43791SOIL	(S)	139 *	105
				106

(W) = Aqueous Matrix

(S)= Solid/Non-Aqueous Matrix

* Value Outside Of QC Limits

QUALITY CONTROL SUMMARY REPORTS

GC - EXTRACTABLE ORGANICS

**METHOD BLANK SUMMARY
PCB ANALYSIS BY GAS CHROMATOGRAPHY**

LABORATORY: Analab, Inc.
NJDEP LAB ID: 12531
MATRIX: SOIL

ANALYSIS DATE: 10/22/94
ANALYST: RW

<u>COMPOUND</u>	<u>RESULTS(UG/KG)</u>	<u>MDL(UG/KG)</u>
AROCLOR 1016	<17.0	17.0
AROCLOR 1221	<17.0	17.0
AROCLOR 1232	<17.0	17.0
AROCLOR 1242	<17.0	17.0
AROCLOR 1248	<17.0	17.0
AROCLOR 1254	<17.0	17.0
AROCLOR 1260	<17.0	17.0

COMMENTS:

MDL = METHOD DETECTION LIMIT.

< = RESULT IS LESS THAN THE METHOD DETECTION LIMIT (MDL).

300B
RH/

ANALAB INC. 205 Campus Plaza 1, Raritan Center, Edison, NJ 08837. Tel: (908) 225-4111, Fax: (908) 225-4110
QUALITY CONTROL SUMMARY
BLANK SPIKE RECOVERY REPORT
PCB ANALYSIS BY GAS CHROMATOGRAPHY

MATRIX: SOIL

THIS REPORT COVERS SAMPLES: 94100044-4 94100125-3
94100122-1 94100120-1 94100117-1 94100135-1 94100149-1
94100178-11 94100172-1,2 94100164-2 94100163-1
94100162-1

<u>PCB</u>	<u>CONCENTRATION</u> <u>(UG/KG)</u>	<u>PERCENT RECOVERY FOR</u> <u>BLANK SPIKE</u>
A1260	33.3	87

SPIKE RANGE: MIN =20
MAX =150

300BS
RH/dg

ANALAB INC. 205 Campus Plaza 1, Raritan Center, Edison, NJ 08837. Tel: (908) 225-4111. Fax: (908) 225-4110
QUALITY CONTROL SUMMARY
MATRIX SPIKE RECOVERY REPORT
PCB ANALYSIS BY GAS CHROMATOGRAPHY

MATRIX: SOIL

THIS REPORT COVERS SAMPLES: 94100044-4 94100125-3
94100122-1 94100120-1 94100117-1 94100138-1 94100149-1
94100178-11 94100172-1,2 94100164-2 94100163-1
94100162-1 ✓

SAMPLE SPIKED: 94100178-11

<u>PCB</u>	<u>CONCENTRATION (UG/KG)</u>	<u>PERCENT RECOVERY MS</u>	<u>PERCENT RECOVERY MSD</u>	<u>RPD</u>
A1260	33.3	88	89	1

ANALYTICAL FLAG KEY:

MS = MATRIX SPIKE

MSD = MATRIX SPIKE DUPLICATE

RPD = RELATIVE PERCENT DIFFERENCE

* = VALUE OUTSIDE OF QC LIMITS

IND = RECOVERY INDETERMINANT DUE TO SAMPLE RELATED
INTERFERENCE

RECOVERY RANGE: MIN=20
MAX=150
RPD=45

301A
JJ/MP

ANALAB INC. 205 Campus Plaza 1, Raritan Center, Edison, NJ 08837, Tel: (908) 225-4111, Fax: (908) 225-4110
QUALITY CONTROL SUMMARY
PCB SURROGATE PERCENT RECOVERY TABLE

MATRIX: SOIL

<u>SAMPLE DESIGNATION</u>	<u>DIBUTYL CHLORENDATE %</u>	<u>TOTAL OUT</u>
METHOD BLANK	124	
BLANK SPIKE	141	
94-10-0178-11 MS	126	
94-10-0178-11 MSD	133	
94-10-0172-1	150	
94-10-0172-2	136	

ANALYTICAL FLAG KEY:

* RECOVERY NOT WITHIN THE ADVISORY LIMITS
D = DILUTED OUT
IND = INDETERMINANT DUE TO MATRIX INTERFERENCE

ADVISORY LIMITS:

Soil Range = 20-150
Water Range = 24-154

312PCBS
RH/lw

ANALAB INC. 205 Campus Plaza 1, Raritan Center, Edison, NJ 08837, Tel: (908) 225-4111, Fax: (908) 225-4110

QUALITY CONTROL SUMMARY REPORTS

METALS ANALYSIS

**QUALITY CONTROL SUMMARY-METALS
TRACE METALS METHOD BLANK SUMMARY**

Batch #: (G)285AA
Batch #: (F)285AA
Matrix : (SOLID)

Date Reported: 11-02-1994
Units: mg/kg

Page 1 of 1

Test Parameter	METHOD BLANK RESULT (mg/kg)	MDL (mg/kg)
ANTIMONY (Sb)	< 1.00	1.00

This Report Applies to the Following Sample(S)

94-10-0172(1,2) ✓

**QUALITY CONTROL SUMMARY - METALS
TRACE METALS BLANK SPIKE(BS) RECOVERY SUMMARY
(LABORATORY CONTROL SAMPLE)**

Batch #: (G)285AA
Batch #: (F)285AA
Matrix : (SOLID)

Date Reported: 11-02-1994

Units: mg/kg

Page 1 of 1

Test Parameter	Spike Conc. (mg/kg)	BS Conc.	Blank Spike (BS) Rec %	Flag	Qc Limit
ANTIMONY(Sb)	5.00	5.22	104.00		80-120

This Report Applies to the Following Sample(s)

94-10-0172(1,2) ✓

**QUALITY CONTROL SUMMARY - METALS
TRACE METALS MS/MSD RECOVERY SUMMARY**

Batch #: (G)285AA
Batch #: (F)285AA
Matrix : (SOLID)

Date Reported: 11-02-1994
Spike Sample ID: 94-10-0305-7
Units: mg/kg

Page 1 of 2

Test Parameter	Sample Conc.	Spike Conc.	MS Conc.	MS Rec %	Flag %REC	Q	QC Limit Rec %
ANTIMONY (Sb)	< 1.00	5.00	2.43	48.60	*	M	75-125

This Report Applies to the Following Sample(S)

94-10-0172(1,2) ✓

QUALITY CONTROL SUMMARY - METALS
TRACE METALS MS/MSD RECOVERY DUPLICATE SUMMARY

Batch #: (G)285AA
Batch #: (F)285AA
Matrix : (SOLID)

Date Reported: 11-02-1994
Spike Sample ID: 94-10-0305-7
Units: mg/kg

Page 2 of 2

Test Parameter	Spike Conc.	MSD Conc.	MSD %Rec.	Flag %Rec.	Q	RPD %	Flag %RPD
ANTIMONY (Sb)	5.00	2.33	46.60	*	M	4.20	

Comment

QC limits for RPD % 0-20

QC limits for % Rec 75-125.

% Rec = % Recovery.

MS = Matrix Spike.

MSD = Matrix Spike Duplicate.

RPD = Relative Percent Defference.

* = Recovery Outside QC Limit.

Q = Qualifier / Comment

M = Recovery outside QC Limit due to matrix effect.

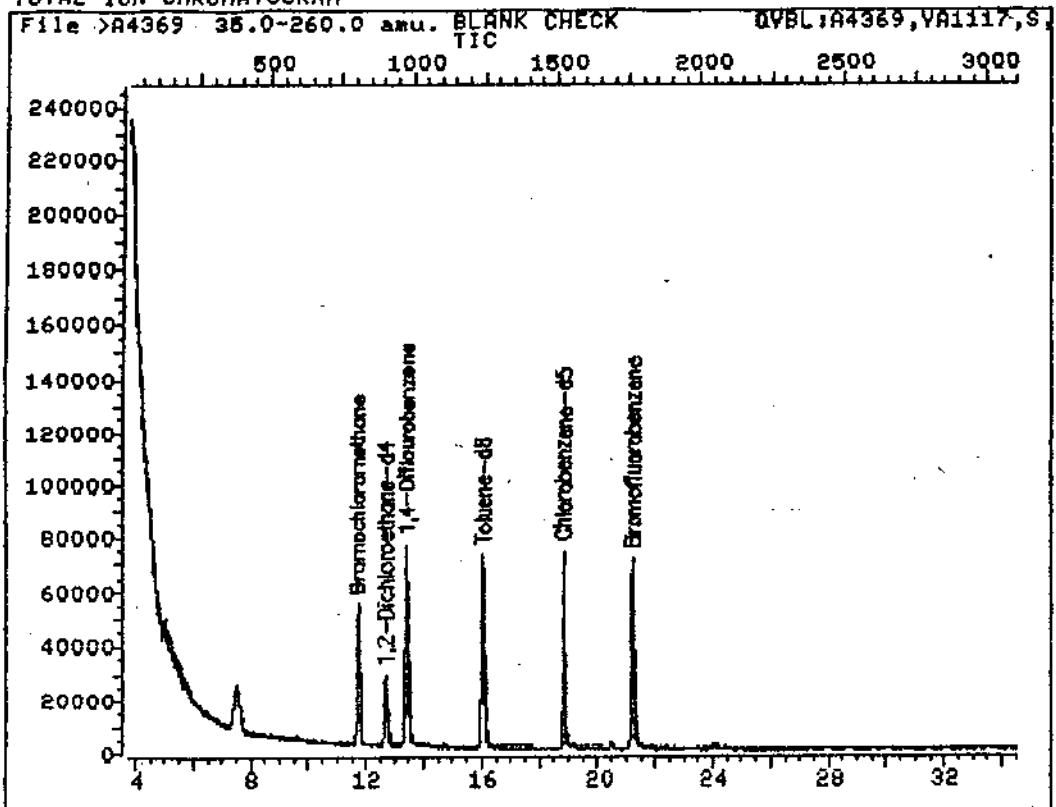
C = Recovery outside QC Limit due to high Conc.
of Analyte in spiked Sample.

ANALAB INC. 205 Campus Plaza 1, Raritan Center, Edison, NJ 08837, Tel: (908) 225-4111, Fax: (908) 225-4110

RAW DATA

GC/MS VOLATILE ORGANICS

TOTAL ION CHROMATOGRAM



Data File: >A4369:::A2

Quant Output File: ^A4369:::QT

Name: BLANK CHECK

Instrument ID: SYS1

Misc: QVBL:A4369,VA1117,S,.2,,V,,MRP

Id File: #A1012:::SC

Title: GC/MS Volatile Organic Compounds

Last Calibration: 941012 15:19 Last Qcal Time: <none>

Operator ID: JANYCE

Quant Time : 941014 17:46

Injected at: 941014 17:11

11/01/94 ✓

QUANT REPORT

Page 1

Operator ID: JANYCE Quant Rev: 7 Quant Time: 941014 17:46
Output File: ^A4369::QT Injected at: 941014 17:11
Data File: >A4369::A2 Dilution Factor: 1.00000
Name: BLANK CHECK Instrument ID: SYS1
Misc: QVBL:A4369,VA1117,S,.2,,V,,MRP

ID File: #A1012::SC
Title: GC/MS Volatile Organic Compounds
Last Calibration: 941012 15:19

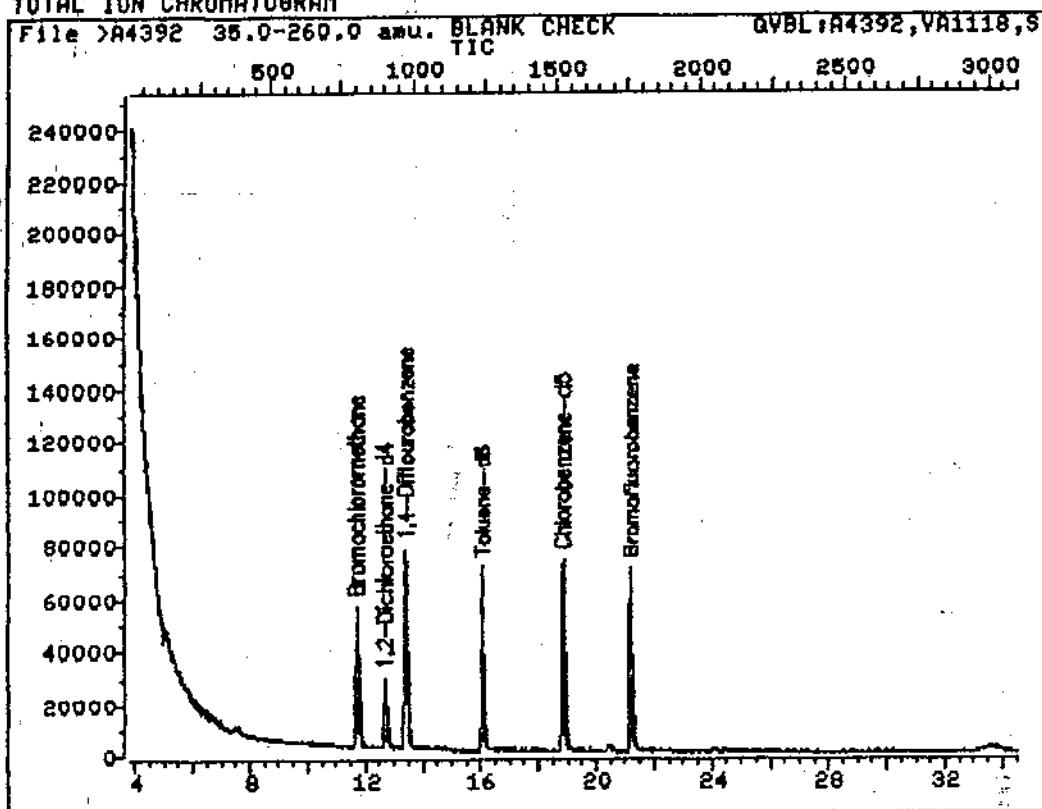
Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc.	Units	q
1)	*Bromochloromethane	11.67	799	61717	50.00	ppb	98
24)	*1,4-Difluorobenzene	13.38	971	235161	50.00	ppb	75
25)	1,2-Dichloroethane-d4	12.66	898	50865	48.76	ppb	81
36)	Toluene-d8	16.03	1238	179469	50.13	ppb	79
37)	*Chlorobenzene-d5	18.80	1518	167290	50.00	ppb	84
52)	Bromofluorobenzene	21.18	1758	93610	50.29	ppb	94

* Compound is ISTD

10/17/94

TOTAL ION CHROMATOGRAM



Data File: >A4392::A2

Quant Output File: ^A4392::QT

Name: BLANK CHECK

Instrument ID: SYS1

Misc: QVBL:A4392,VA1118,S,.2,,U,,MRP

Id File: #A1012::SC

Title: GC/MS Volatile Organic Compounds

Last Calibration: 941012 15:19

Last Qcal Time: <none>

Operator ID: JANYCE

Quant Time : 941015 13:06

Injected at: 941015 12:30

QUANT REPORT

Page 1

Operator ID: JANYCE
Output File: ^A4392::QT
Data File: >A4392::A2
Name: BLANK CHECK
List: QVBL:A4392,VA1118,S,.2,,U,,MRP

Quant Rev: 7 Quant Time: 941015 13:06
Injected at: 941015 12:30
Dilution Factor: 1.00000
Instrument ID: SYS1

ID File: #A1012::SC
Title: GC/MS Volatile Organic Compounds
Last Calibration: 941012 15:19

Last Qcal Time: <none>

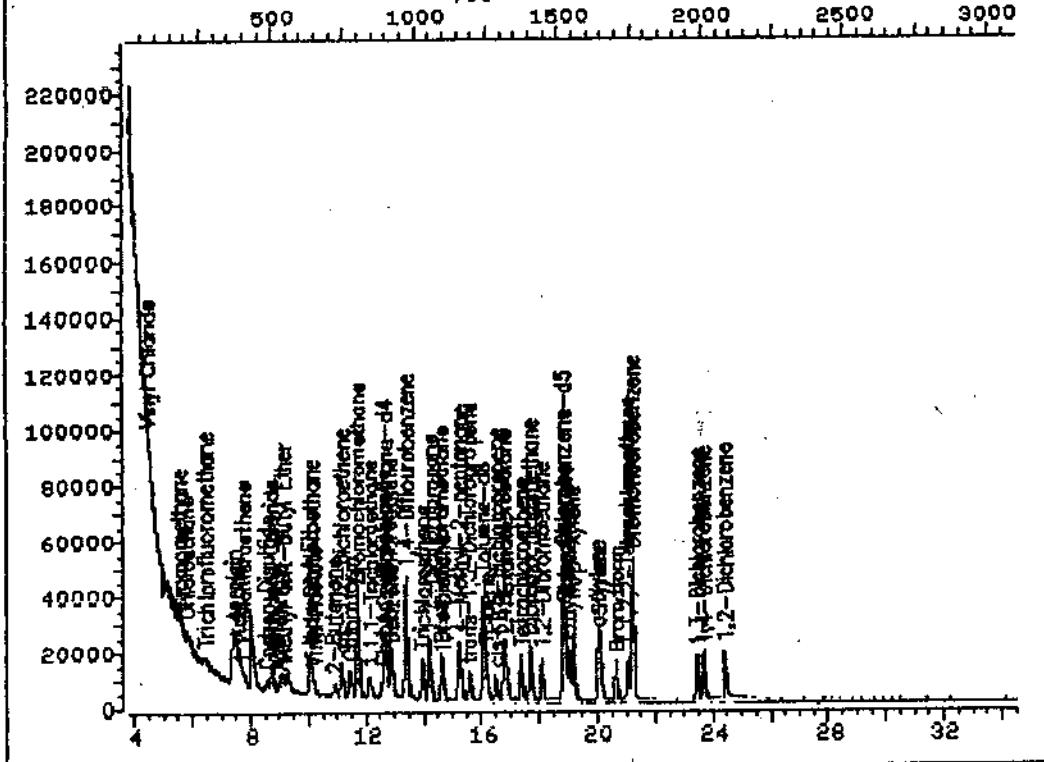
	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	11.68	795	60860	50.00	ppb	90
-24)	*1,4-Difluorobenzene	13.38	966	238206	50.00	ppb	76
25)	1,2-Dichloroethane-d4	12.65	893	50393	47.69	ppb	78
36)	Toluene-d8	16.03	1234	175714	48.45	ppb	90
-37)	*Chlorobenzene-d5	18.80	1513	160526	50.00	ppb	87
52)	Bromofluorobenzene	21.18	1753	93630	52.94	ppb	88

* Compound is ISTD

10/11/94

TOTAL ION CHROMATOGRAM

File >A4379 36.0-260.0 amu. BLANKSPIKE
TIC BLMS.A4379,QA3216,S



Data File: >A4379::A2
Name: BLANKSPIKE
Misc: BLMS.A4379,QA32

Quant Output File: ^A4379::QT
Instrument ID: SYS1

Id File: #A1012::SC
Title: GC/MS Volatile Organic Compounds
Last Calibration: 941012 15:19 Last Qcal Time: <none>

Operator ID: JANYCE
Quant Time : 941015 00:30
Injected at: 941014 23:55

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QUANT REPORT

Page 1

Operator ID: JANYCE
 Output File: ^A4379::QT
 Data File: >A4379::A2
 Name: BLANKSPIKE
 Misc: BLMS.A4379,QA321S,S.,2,,V,,MRP

Quant Rev: 7 Quant Time: 941015 00:30
 Injected at: 941014 23:55
 Dilution Factor: 1.00000
 Instrument ID: SYS1

ID File: #A1012::SC
 Title: GC/MS Volatile Organic Compounds
 Last Calibration: 941012 15:19

Last Qcal Date: <none>

*033 not present

Compound	R.T.	Scan#	Area	Conc	Units	q
1) *Bromochloromethane	11.70	797	44275	50.00	ppb	98
2) Chloromethane	4.22	43	3683M	9.87	ppb	
3) Vinyl Chloride	4.47	68	3400	7.38	ppb	94
4) Bromomethane	5.54	176	10042	12.53	ppb	92
5) Chloroethane	5.80	202	3419	10.39	ppb	98
6) Trichlorofluoromethane	6.46	268	13701	9.57	ppb	95
7) Acrolein	7.38	361	53375	955.24	ppb	93
8) 1,1-Dichloroethene	7.74	398	9121	9.71	ppb	75
9) Acetone	7.56	379	11783	133.77	ppb	90
10) tert-Butyl Alcohol	8.10	434	8219M	244.65	ppb	
11) Carbon Disulfide	8.56	480	18643	9.84	ppb	76
12) Methylene Chloride	8.72	496	16445	19.82	ppb	85
13) Methyl tert-Butyl Ether	9.13	538	34581	22.59	ppb	71
14) trans-1,2-Dichloroethene	9.30	555	13567M	13.39	ppb	
15) Acrylonitrile	8.96	521	9550	106.77	ppb	93
16) Isopropyl Ether	10.05	630	41542	20.72	ppb	80
17) 1,1-Dichloroethane	10.09	634	16908	14.59	ppb	97
18) Vinyl Acetate	10.16	642	18683M	20.38	ppb	100
19) 2-Butanone	10.86	712	19500	129.13	ppb	63
20) cis-1,2-Dichloroethene	11.15	741	21026	17.25	ppb	88
21) Chloroform	11.45	772	28286	17.65	ppb	
22) 1,1,1-Trichloroethane	12.15	842	19096	13.20	ppb	90
23) Carbon Tetrachloride	12.58	886	15230	11.35	ppb	83
24) *1,4-Difluorobenzene	13.39	967	131867	50.00	ppb	75
25) 1,2-Dichloroethane-d4	12.65	893	40693	(69.56)	ppb	81
26) Benzene	12.85	913	35669	21.60	ppb	80
27) 1,2-Dichloroethane	12.81	909	18259	28.63	ppb	89
28) Trichloroethene	13.93	1022	17762	17.83	ppb	96
29) 1,2-Dichloropropane	14.23	1052	29718	26.47	ppb	98
31) Bromodichloromethane	14.61	1090	32982	25.59	ppb	97
32) 1,4-Dioxane	14.65	1094	6614	1318.31	ppb	84
34) 4-Methyl-2-pentanone	15.25	1155	53587	161.81	ppb	85
35) trans-1,3-Dichloropropene	15.58	1188	19671	22.84	ppb	93
36) Toluene-d8	16.04	1234	105324	(52.46)	ppb	90
37) *Chlorobenzene-d5	18.81	1513	112503	50.00	ppb	91
38) Toluene	16.19	1249	45578	18.68	ppb	97
39) cis-1,3-Dichloropropene	16.50	1281	15096	19.15	ppb	62
40) 1,1,2-Trichloroethane	16.76	1307	20154	26.48	ppb	90
41) 2-Hexanone	16.82	1313	30029	133.90	ppb	79
42) Tetrachloroethene	17.39	1370	18669	13.80	ppb	98
43) Dibromochloromethane	17.68	1400	38569	24.01	ppb	98
44) 1,2-Dibromoethane	18.06	1438	35316	26.08	ppb	93

45) Chlorobenzene

18.88 1520 37280 19.80 ppb 54

QUANT REPORT

Page 2

Operator ID: JANYCE
 Output File: ^A4379::QT
 Data File: >A4379::A2
 Name: BLANKSPIKE
 Misc: BLMS,A4379,QA321S,S,.2,,V,,MRP

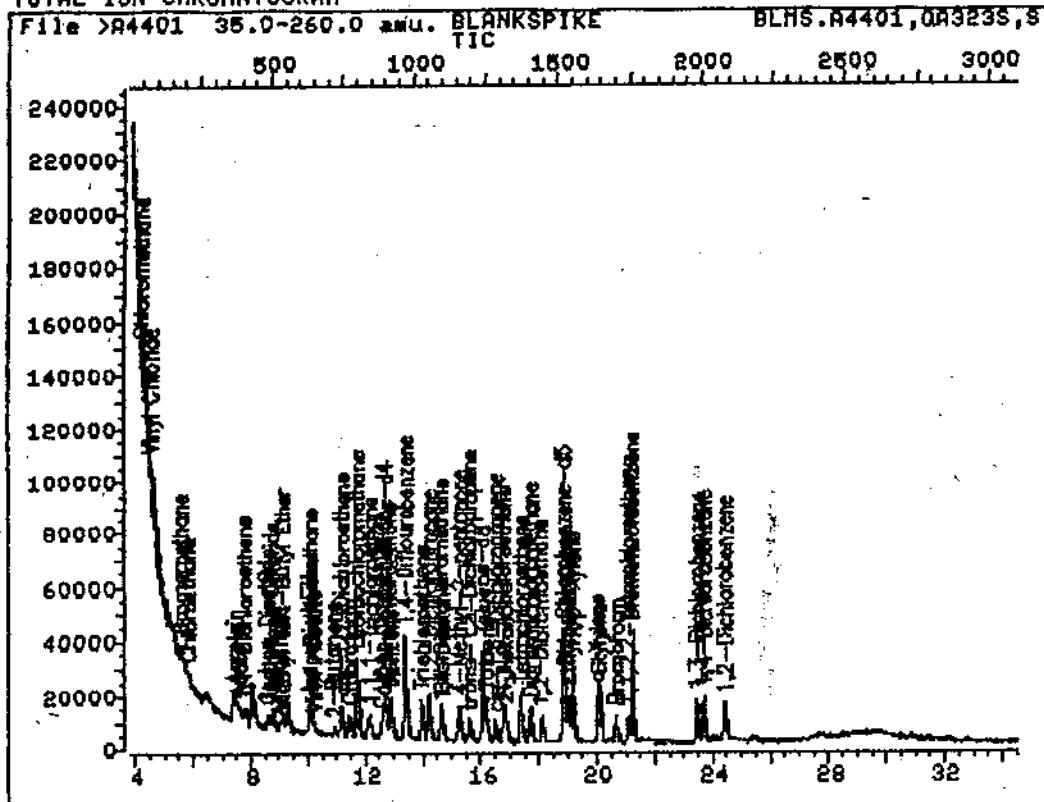
ID File: #A1012::SC
 Title: GC/MS Volatile Organic Compounds
 Last Calibration: 941012 15:19 Last Qcal Date: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
46)	Ethylbenzene	19.00	1533	47172	17.69	ppb	86
47)	m/p-Xylene	19.16	1549	63765M	31.54	ppb	75
48)	o-Xylene	20.00	1633	46253	19.44	ppb	56
49)	Styrene	20.05	1638	35903	20.72	ppb	99
50)	Bromoform	20.64	1698	24448	20.93	ppb	92
51)	1,1,2,2-Tetrachloroethane	21.03	1737	29219	26.47	ppb	91
52)	Bromofluorobenzene	21.19	1753	65992	(53.24)	ppb	95
53)	1,3-Dichlorobenzene	23.45	1981	31332	20.32	ppb	86
54)	1,4-Dichlorobenzene	23.66	2002	27832	20.36	ppb	92
55)	1,2-Dichlorobenzene	24.40	2077	31969	23.06	ppb	82

* Compound is ISTD

10/11/94

TOTAL ION CHROMATOGRAM



Data File: >A4401::A2

Quant Output File: ^A4401::QT

Name: BLANKSPIKE

Instrument ID: SYS1

Misc: BLMS.A4401,QA323S,S,.2,,U,,,MRP

Id File: #A1012::SC

Title: GC/MS Volatile Organic Compounds

Last Calibration: 941012 15:19

Last Qcal Time: <none>

Operator ID: JANYCE

Quant Time : 941015 19:12

Injected at: 941015 18:36

10/17/91

QUANT REPORT

Page 1

Operator ID: JANYCE
 Input File: ^A4401::QT
 Data File: >A4401::A2
 File: BLANKSPIKE
 sc: BLMS.A4401,QA323S,S,.2,,U,,MRP

Quant Rev: 7 Quant Time: 941015 19:12
 Injected at: 941015 18:36
 Dilution Factor: 1.00000
 Instrument ID: SYS1

File: #A1012::SC

Title: GC/MS Volatile Organic Compounds

Last Calibration: 941012 15:19

Last Qcal Date: <none>

Compound	R.T.	Scan#	Area	Conc	Units	Q
1) *Bromochloromethane	11.68	795	32069	50.00	ppb	84
2) Chloromethane	4.18	39	4582	16.94	ppb	95
3) Vinyl Chloride	4.52	73	5892	17.67	ppb	96
4) Bromomethane	5.54	176	11370	19.59	ppb	96
5) Chloroethane	5.83	205	4873	20.45	ppb	78
6) Trichlorofluoromethane	6.47	270	19767M	19.06	ppb	
7) Acrolein	7.40	363	36032	890.30	ppb	91
8) 1,1-Dichloroethane	7.75	399	12720	18.69	ppb	75
9) Acetone	7.55	379	6381	100.01	ppb	79
10) tert-Butyl Alcohol	8.08	432	4544M	186.74	ppb	
11) Carbon Disulfide	8.57	481	26513	19.32	ppb	67
12) Methylene Chloride	8.70	495	12902	21.47	ppb	78
13) Methyl tert-Butyl Ether	9.12	537	24371M	21.98	ppb	78
14) trans-1,2-Dichloroethene	9.31	556	14619M	19.91	ppb	
15) Acrylonitrile	8.96	521	5654	87.28	ppb	90
16) Isopropyl Ether	10.05	631	32998	22.73	ppb	77
17) 1,1-Dichloroethane	10.07	633	12372	20.69	ppb	99
18) Vinyl Acetate	10.16	642	13410M	20.20	ppb	100
19) 2-Butanone	10.86	712	11832	108.17	ppb	51
20) cis-1,2-Dichloroethene	11.16	743	12957	20.34	ppb	71
21) Chloroform	11.43	770	23987	20.66	ppb	88
22) 1,1,1-Trichloroethane	12.14	841	20767	19.81	ppb	91
23) Carbon Tetrachloride	12.56	884	18411M	18.94	ppb	91
24) *1,4-Difluorobenzene	13.38	966	120371	50.00	ppb	76
25) 1,2-Dichloroethane-d4	12.65	893	27565	51.62	ppb	78
26) Benzene	12.84	912	33255	22.06	ppb	79
27) 1,2-Dichloroethane	12.83	911	12583	21.62	ppb	93
28) Trichloroethene	13.93	1022	18695	20.56	ppb	92
29) 1,2-Dichloropropane	14.21	1050	24220	23.64	ppb	99
30) Bromodichloromethane	14.62	1091	25414	21.60	ppb	97
31) 1,4-Dioxane	14.64	1093	4265	931.29	ppb	67
32) 2-Chloroethyl Vinyl Ether	15.20	1150	964M	10.49	ppb	
33) 4-Methyl-2-pentanone	15.25	1155	34745	114.93	ppb	87
34) trans-1,3-Dichloropropene	15.59	1189	16468	20.95	ppb	95
35) Toluene-d8	16.03	1233	92775	50.63	ppb	89
36) *Chlorobenzene-d5	18.81	1514	87110	50.00	ppb	86
37) Toluene	16.17	1248	41220	21.82	ppb	94
38) cis-1,3-Dichloropropene	16.49	1280	10284	16.85	ppb	58
39) 1,1,2-Trichloroethane	16.77	1308	13453	22.83	ppb	86
40) 2-Hexanone	16.83	1314	19076	109.85	ppb	87
41) Tetrachloroethene	17.37	1369	19977	19.08	ppb	94
42) Dibromochloromethane	17.69	1401	26016	20.91	ppb	98
43) 1,2-Dibromoethane	18.04	1436	22091	21.07	ppb	99

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QUANT REPORT

Page 2

Operator ID: JANYCE Quant Rev: 7 Quant Time: 941015 19:12
 Output File: ^A4401::QT Injected at: 941015 18:36
 Data File: >A4401::A2 Dilution Factor: 1.00000
 Name: BLANKSPIKE Instrument ID: SYS1
 sc: BLMS.A4401,QA323S,S,.2,,U,,MRP

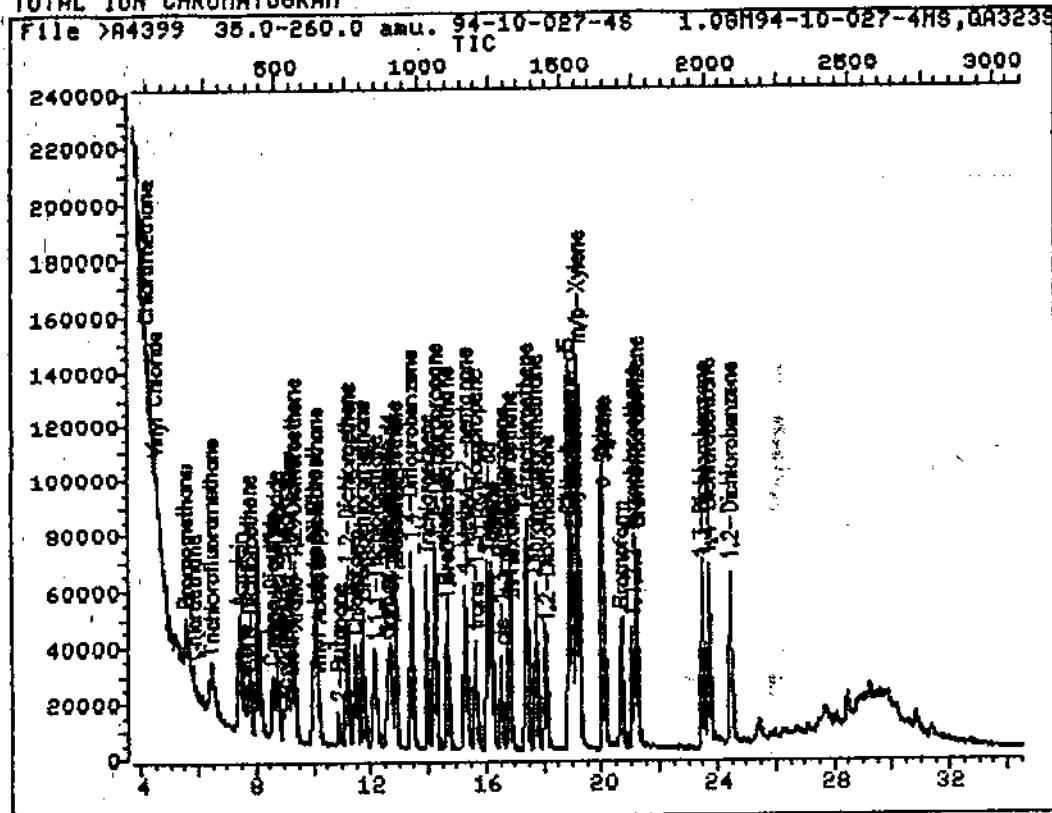
ID File: #A1012::SC
 Title: GC/MS Volatile Organic Compounds
 Last Calibration: 941012 15:19 Last Qcal Date: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	Q
✓	Chlorobenzene	18.87	1520	31031	21.29	ppb	48
✓	Ethylbenzene	19.01	1534	43656	21.15	ppb	91
✓	m/p-Xylene	19.16	1549	50698	32.38	ppb	73
✓	o-Xylene	19.98	1632	40419	21.94	ppb	61
✓	Styrene	20.05	1639	29335	21.87	ppb	96
✓	Bromoform	20.63	1697	16804	18.58	ppb	98
✓	1,1,2,2-Tetrachloroethane	21.03	1737	19257	22.53	ppb	96
✓	Bromofluorobenzene	21.17	1752	49441	51.52	ppb	80
✓	1,3-Dichlorobenzene	23.44	1980	27106	22.71	ppb	90
✓	1,4-Dichlorobenzene	23.66	2003	24843	23.47	ppb	87
✓	1,2-Dichlorobenzene	24.40	2077	26223	24.43	ppb	83

* Compound is ISTD

10/17/94

TOTAL ION CHROMATOGRAM



Data File: >A4399::A2

Quant Output File: ^A4399::QT

Name: 94-10-027-4S 1.0GM

Instrument ID: SYS1

Misc: 94-10-027-4MS,QA323S,S,.2,,U,,MRP

Id File: #A1012::SC

Title: GC/MS Volatile Organic Compounds

Last Calibration: 941012 15:19 Last Qcal Time: <none>

Operator ID: JANYCE

Quant Time : 941015 17:49

Injected at: 941015 17:13

10/17/94

QUANT REPORT

Page 1

Operator ID: JANYCE
 Output File: ^A4399::QT
 Lta File: >A4399::A2
 Me: 94-10-027-4S 1.0GM
 Sc: 94-10-027-4MS,QA323S,S,.2,,U,,MRP

Quant Rev: 7 Quant Time: 941015 17:49
 Injected at: 941015 17:13
 Dilution Factor: 1.00000
 Instrument ID: SYS1

File: #A1012::SC
 Title: GC/MS Volatile Organic Compounds
 Last Calibration: 941012 15:19

Last Qcal Date: <none>

**C33 not present*

	Compound	R.T.	Scan#	Area	Conc	Units	Q
1)	*Bromochloromethane	11.68	800	54563	50.00	ppb	89
2)	Chloromethane	4.21	47	22255	48.37	ppb	84
3)	Vinyl Chloride	4.49	76	28598	50.40	ppb	98
4)	Bromomethane	5.93	180	50383	51.02	ppb	99
5)	Chlorethane	5.80	208	21212	52.32	ppb	90
6)	Trichlorofluoromethane	6.44	272	88502	50.15	ppb	94
7)	Acrolein	7.38	367	141034	2048.13	ppb	91
8)	1,1-Dichloroethene	7.75	404	58605	50.62	ppb	66
9)	Acetone	7.57	386	29247	269.43	ppb	81
10)	tert-Butyl Alcohol	8.14	443	20734M	500.81	ppb	79
11)	Carbon Disulfide	8.55	485	119837	51.33	ppb	79
12)	Methylene Chloride	8.71	501	52402	51.25	ppb	81
13)	Methyl tert-Butyl Ether	9.14	544	97334	51.58	ppb	72
14)	trans-1,2-Dichloroethene	9.30	560	64552	51.68	ppb	69
15)	Acrylonitrile	8.97	527	24337	220.80	ppb	96
16)	Isopropyl Ether	10.04	635	132658	53.70	ppb	80
17)	1,1-Dichloroethane	10.08	639	72770	50.94	ppb	96
18)	Vinyl Acetate	10.16	647	11469	10.15	ppb	100
19)	2-Butanone	10.86	718	52250	280.76	ppb	66
20)	cis-1,2-Dichloroethene	11.17	749	77186	51.40	ppb	68
21)	Chloroform	11.45	777	96949	49.07	ppb	86
22)	1,1,1-Trichloroethane	12.16	848	89952	50.44	ppb	93
23)	Carbon Tetrachloride	12.57	890	80265	48.53	ppb	79
24)	*1,4-Difluorobenzene	13.38	971	215998	50.00	ppb	78
25)	1,2-Dichloroethane-d4	12.65	898	48048	50.14	ppb	70
26)	Benzene	12.84	917	143897	53.19	ppb	81
27)	1,2-Dichloroethane	12.81	914	52048	49.83	ppb	92
28)	Trichloroethene	13.93	1027	85233	52.23	ppb	92
29)	1,2-Dichloropropane	14.23	1057	100833	54.84	ppb	96
30)	Bromodichloromethane	14.61	1095	108637	51.45	ppb	96
31)	1,4-Dioxane	14.64	1098	17359	2112.34	ppb	68
32)	4-Methyl-2-pentanone	15.26	1161	142708	263.07	ppb	88
33)	trans-1,3-Dichloropropene	15.59	1194	71129	50.43	ppb	91
34)	Toluene-d8	16.03	1238	165424	50.30	ppb	83
35)	*Chlorobenzene-d5	18.81	1518	160027	50.00	ppb	90
36)	Toluene	16.17	1252	175474	50.57	ppb	89
37)	cis-1,3-Dichloropropene	16.49	1285	54638	48.73	ppb	64
38)	1,1,2-Trichloroethane	16.75	1311	56704	52.38	ppb	91
39)	2-Hexanone	16.83	1319	84664	265.40	ppb	67
40)	Tetrachloroethene	17.37	1323	91363	47.49	ppb	99
41)	Dibromochloromethane	17.68	1404	112437	49.20	ppb	84
42)	1,2-Dibromoethane	18.06	1443	97805	50.77	ppb	84
43)	Chlorobenzene	18.87	1524	136212	50.87	ppb	65

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QUANT REPORT

Page 2

Operator ID: JANYCE Quant Rev: 7 Quant Time: 941015 17:49
Input File: ^A4399::QT Injected at: 941015 17:13
Data File: >A4399::A2 Dilution Factor: 1.00000
Date: 94-10-027-4S 1.0GM Instrument ID: SYS1
Loc: 94-10-027-4MS,QA323S,S,.2,,U,,MRP

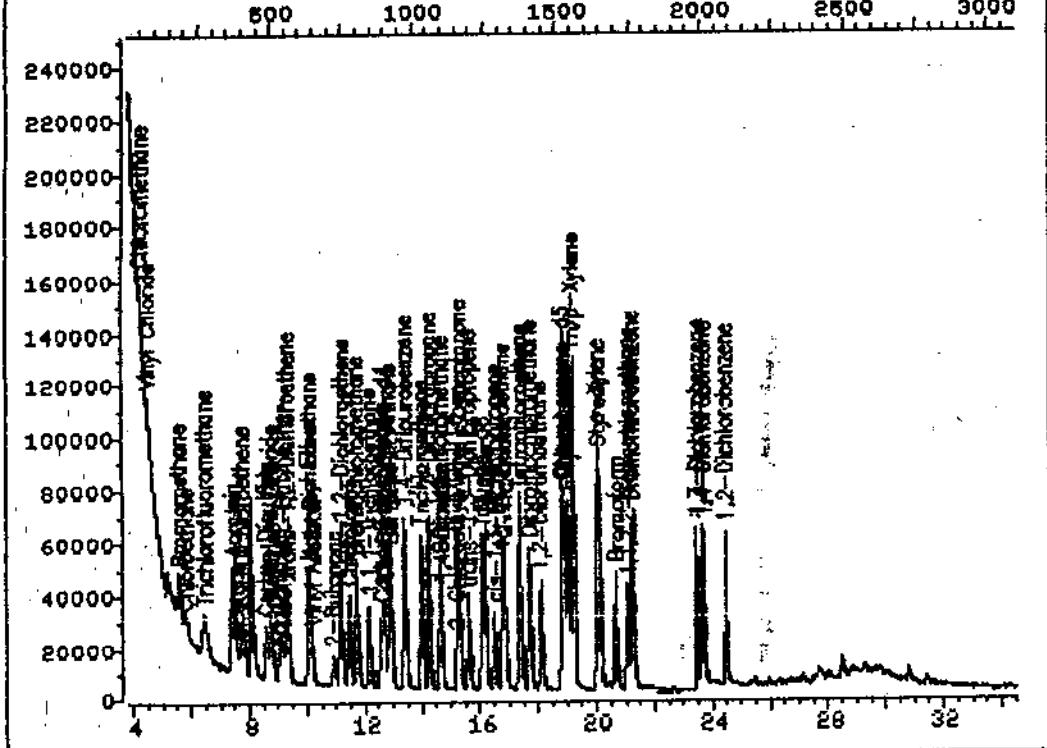
File: #A1012::SC
Title: GC/MS Volatile Organic Compounds
Last Calibration: 941012 15:19 Last Qcal Date: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1	Ethylbenzene	19.02	1539	199498	52.61	ppb	92
2	m/p-Xylene	19.16	1553	215843	75.05	ppb	79
3	o-Xylene	19.99	1637	168030	49.65	ppb	52
4	Styrene	20.05	1643	132080	53.59	ppb	96
5	Bromoform	20.63	1701	78967	47.53	ppb	94
6	1,1,2,2-Tetrachloroethane	21.02	1741	82902	52.29	ppb	92
7	Bromofluorobenzene	21.18	1757	89037	50.50	ppb	93
8	1,3-Dichlorobenzene	23.44	1984	113837	51.91	ppb	84
9	1,4-Dichlorobenzene	23.65	2006	98503	50.66	ppb	90
10	1,2-Dichlorobenzene	24.41	2082	102560	52.01	ppb	86

Compound is ISTD

10/11/94

TOTAL ION CHROMATOGRAM

File >A4400 35.0-260.0 amu. 94-10-027-4S 1.00M94-10-027-4SD,QA323S
TIC

Data File: >A4400::A2

Name: 94-10-027-4S 1.0GM

Misc: 94-10-027-4SD,QA323S,S,.2,,U,,MRP

Quant Output File: ^A4400::QT

Instrument ID: SYS1

Id File: #A1012::SC

Title: GC/MS Volatile Organic Compounds

Last Calibration: 941012 15:19 Last Qcal Time: <none>

Operator ID: JANYCE

Quant Time : 941015 18:30

Injected at: 941015 17:55

10/17/94

QUANT REPORT

Page 1

Operator ID: JANYCE
 Input File: ^A4400::QT
 Data File: >A4400::A2
 Date: 94-10-027-45 1.0GM
 Spec: 94-10-027-4SD,QA323S,S,.2,,U,,MRP

Quant Rev: 7 Quant Time: 941015 18:30
 Injected at: 941015 17:55
 Dilution Factor: 1.00000
 Instrument ID: SYS1

File: #A1012::SC

Title: GC/MS Volatile Organic Compounds
 Last Calibration: 941012 15:19

Last Qcal Date: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	11.67	294	51194	50.00	ppb	90
2)	Chloromethane	4.20	41	21094	48.86	ppb	84
3)	Vinyl Chloride	4.48	69	26268	49.34	ppb	93
4)	Bromomethane	5.54	176	47225	51.03	ppb	92
5)	Chloroethane	5.78	200	19364	50.90	ppb	96
6)	Trichlorofluoromethane	6.43	266	79754	48.17	ppb	91
7)	Acrolein	7.38	361	141190	2185.33	ppb	95
8)	1,1-Dichloroethene	7.72	396	55192	50.81	ppb	67
9)	Acetone	7.55	378	29004	284.77	ppb	93
10)	tert-Butyl Alcohol	8.13	437	20963M	539.66	ppb	74
11)	Carbon Disulfide	8.56	480	110427	50.42	ppb	79
12)	Methylene Chloride	8.71	495	48190	50.23	ppb	69
13)	Methyl tert-Butyl Ether	9.14	539	89628	50.63	ppb	67
14)	trans-1,2-Dichloroethene	9.29	554	60521	51.64	ppb	98
15)	Acrylonitrile	8.97	522	24204	234.04	ppb	78
16)	Isopropyl Ether	10.05	630	120533	52.00	ppb	95
17)	1,1-Dichloroethane	10.08	633	66696	49.76	ppb	100
18)	Vinyl Acetate	10.16	641	84185	79.42	ppb	68
19)	2-Butanone	10.86	712	50526	289.36	ppb	69
20)	cis-1,2-Dichloroethene	11.17	743	72114	51.18	ppb	84
21)	Chloroform	11.44	771	94715	51.10	ppb	94
22)	1,1,1-Trichloroethane	12.14	841	82103	49.07	ppb	78
23)	Carbon Tetrachloride	12.56	883	77890	50.19	ppb	73
24)	*1,4-Difluorobenzene	13.38	966	199480	50.00	ppb	78
25)	1,2-Dichloroethane-d4	12.65	892	42681	48.23	ppb	79
26)	Benzene	12.85	913	130958	52.42	ppb	91
27)	1,2-Dichloroethane	12.80	908	47329	49.11	ppb	92
28)	Trichloroethene	13.93	1021	28995	52.42	ppb	93
29)	1,2-Dichloropropane	14.21	1050	92593	54.53	ppb	91
30)	Bromodichloromethane	14.63	1092	99992	51.28	ppb	76
31)	1,4-Dioxane	14.65	1094	17476	2302.67	ppb	74
32)	2-Chloroethyl Vinyl Ether	15.20	1149	4594	30.16	ppb	83
33)	4-Methyl-2-pentanone	15.26	1155	137955	275.37	ppb	91
34)	trans-1,3-Dichloropropene	15.59	1189	66866	51.33	ppb	90
35)	Toluene-d8	16.04	1234	154455	50.86	ppb	88
36)	*Chlorobenzene-d5	18.81	1513	147866	50.00	ppb	93
37)	Toluene	16.17	1247	161517	50.38	ppb	64
38)	cis-1,3-Dichloropropene	16.49	1229	50733	48.97	ppb	90
39)	1,1,2-Trichloroethane	16.75	1306	53034	53.01	ppb	75
40)	2-Hexanone	16.81	1312	82705	280.58	ppb	89
41)	Tetrachloroethene	17.36	1367	88579	49.83	ppb	99
42)	Dibromochloromethane	17.68	1399	105596	50.01	ppb	99
43)	1,2-Dibromoethane	18.05	1436	93945	52.78	ppb	99

QUANT REPORT

Page 2

Operator ID: JANYCE Quant Rev: 7 Quant Time: 941015 18:30
 Input File: ^A4400::QT Injected at: 941015 17:55
 Data File: >A4400::A2 Dilution Factor: 1.00000
 Date: 94-10-027-4S 1.0GM Instrument ID: SYS1
 Loc: 94-10-027-4SD,QA323S,S,.2,,U,,MRP

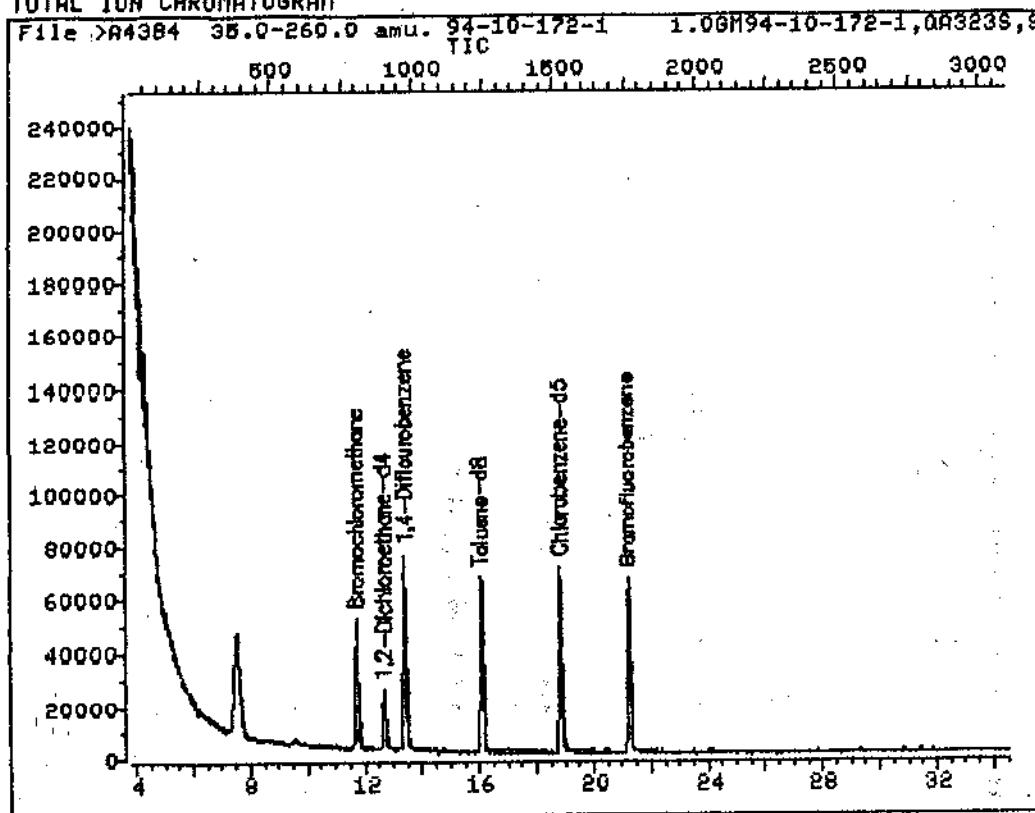
File: #A1012::SC
 Title: GC/MS Volatile Organic Compounds
 Last Calibration: 941012 15:19 Last Qcal Date: <none>

Compound	R.T.	Scan#	Area	Conc	Units	Q
Chlorobenzene	18.87	1519	127039	51.34	ppb	56
Ethylbenzene	19.01	1533	186035	53.09	ppb	83
m/p-Xylene	19.16	1548	200323	75.38	ppb	75
<i>o</i> -Xylene	20.01	1634	156974	50.20	ppb	53
Styrene	20.05	1638	121281	53.26	ppb	97
Bromoform	20.63	1696	76694	49.96	ppb	94
1,1,2,2-Tetrachloroethane	21.03	1737	78854	54.34	ppb	85
Bromofluorobenzene	21.18	1752	80964	49.70	ppb	90
1,3-Dichlorobenzene	23.44	1980	104310	51.48	ppb	92
1,4-Dichlorobenzene	23.67	2003	91855	51.12	ppb	91
1,2-Dichlorobenzene	24.42	2078	102354	56.18	ppb	82

* Compound is ISTD

10/17/94

TOTAL ION CHROMATOGRAM



Data File: >A4384::A2

Quant Output File: ^A4384::QT

Name: 94-10-172-1 1.0GM

Instrument ID: SYS1

Misc: 94-10-172-1,QA323S,S,.2,,U,,MRP

Id File: #A1012::SC

Title: GC/MS Volatile Organic Compounds

Last Calibration: 941012 15:19 Last Qcal Time: <none>

Operator ID: JANYCE

Quant Time : 941015 03:53

Injected at: 941015 03:17

SD
10/96/94

QUANT REPORT

Page 1

Operator ID: JANYCE Quant Rev: 7 Quant Time: 941015 03:53
Output File: ^A4384::QT Injected at: 941015 03:17
Data File: >A4384::A2 Dilution Factor: 1.00000
Name: 94-10-172-1 1.0GM Instrument ID: SYS1
Misc: 94-10-172-1,QA323S,S,.2,,U,,MRP

ID File: #A1012::SC
Title: GC/MS Volatile Organic Compounds
Last Calibration: 941012 15:19

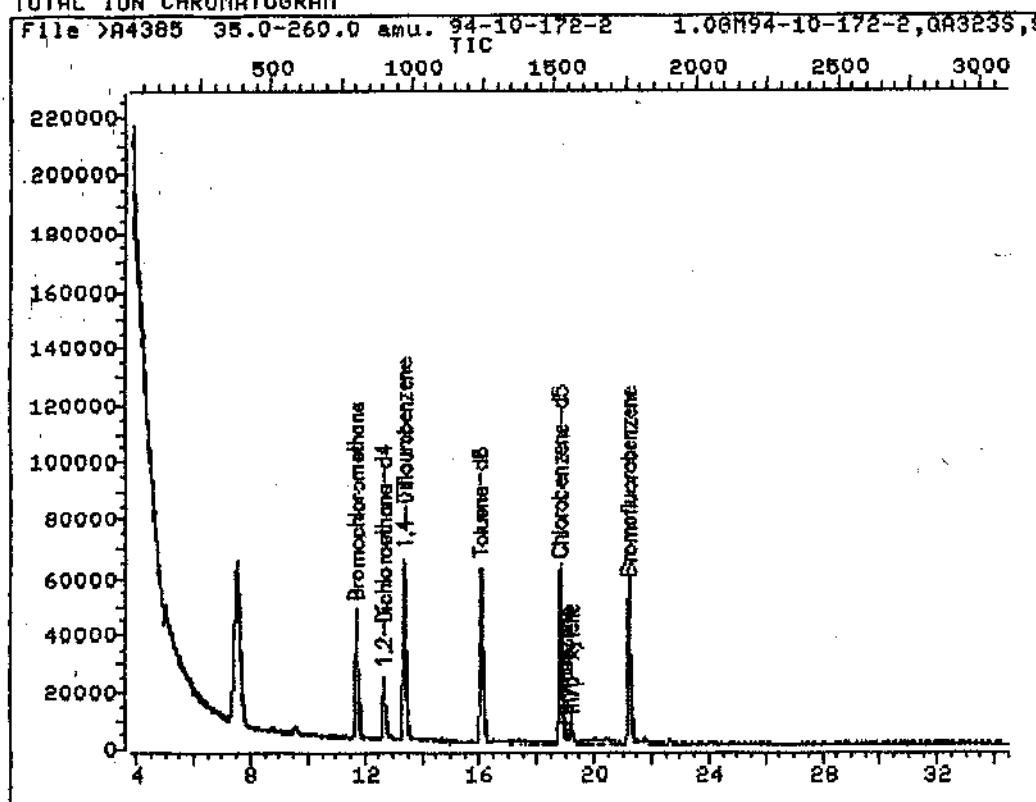
Last Qcal Time: <none>

Compound	R.T.	Scan#	Area	Conc	Units	q
1) *Bromochloromethane	11.69	794	54468	50.00	ppb	96
24) *1,4-Difluorobenzene	13.38	965	225538	50.00	ppb	73
25) 1,2-Dichloroethane-d4	12.65	891	44598	44.57	ppb	74
36) Toluene-d8	16.02	1231	170276	49.59	ppb	88
37) *Chlorobenzene-d5	18.81	1512	150908	50.00	ppb	84
52) Bromofluorobenzene	21.18	1751	90921	54.69	ppb	93

* Compound is ISTD

S\$
10/26/94

TOTAL ION CHROMATOGRAM



Data File: >A4385::A2

Quant Output File: ^A4385::QT

Name: 94-10-172-2 1.0GM

Instrument ID: SYS1

Misc: 94-10-172-2,QA323S,S,.2,,U,,MRP

Id File: #A1012::SC

Title: GC/MS Volatile Organic Compounds

Last Calibration: 941012 15:19 Last Qcal Time: <none>

Operator ID: JANYCE

Quant Time : 941015 04:33

Injected at: 941015 03:58

*SJ
10/06/94*

QUANT REPORT

Page 1

Operator ID: JANYCE Quant Rev: 7 Quant Time: 941015 04:33
Output File: ^A4385::QT Injected at: 941015 03:58
Data File: >A4385::A2 Dilution Factor: 1.00000
Name: 94-10-172-2 1.0GM Instrument ID: SYS1
Misc: 94-10-172-2,QA323S,S,.2,,U,,MRP

ID File: #A1012::SC

Title: GC/MS Volatile Organic Compounds

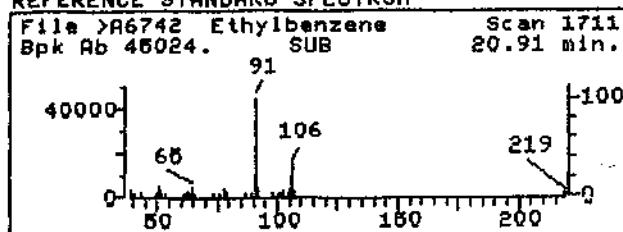
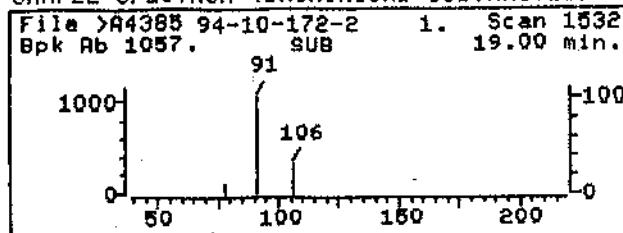
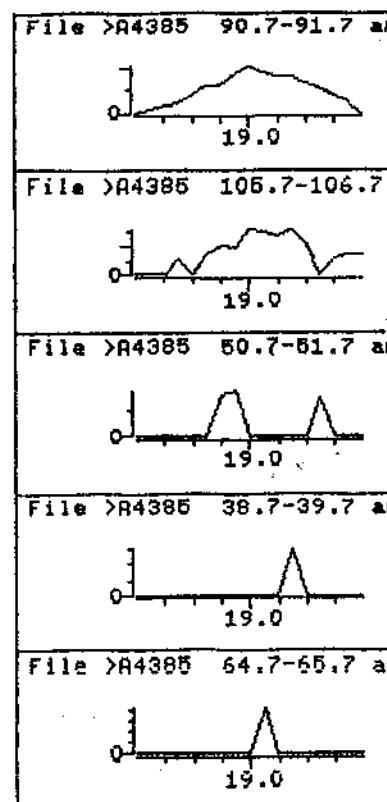
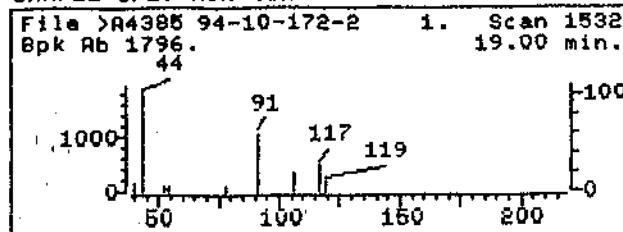
Last Calibration: 941012 15:19

Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	11.69	795	50889	50.00	ppb	89
24)	*1,4-Difluorobenzene	13.38	965	208030	50.00	ppb	78
25)	1,2-Dichloroethane-d4	12.66	893	42903	46.49	ppb	79
36)	Toluene-d8	16.02	1232	158017	49.89	ppb	88
37)	*Chlorobenzene-d5	18.80	1512	138853	50.00	ppb	86
46)	Ethylbenzene	19.00	1532	5094	1.55	ppb	93
47)	m/p-Xylene	19.17	1549	13513	5.42	ppb	76
52)	Bromofluorobenzene	21.19	1753	81528	53.29	ppb	91

* Compound is ISTD

SD
10/26/94

REFERENCE STANDARD SPECTRUM**SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)****SAMPLE SPECTRUM (UNALTERED)**

Data File: >A4385::A2

Quant Output File: ^A4385::QT

Name: 94-10-172-2 1.0GM

Instrument ID: SYS1

Misc: 94-10-172-2,QA323S,S,.2,,U,,MRP

Quant ID File: #A1012::SC

Quant Time: 941015 04:33

Last Calibration: 941012 15:19

Injected at: 941015 03:58

Last Qcal Time: <none>

Compound No : 46

PPD
56
10/16/94

Compound Name : Ethylbenzene

Scan Number : 1532

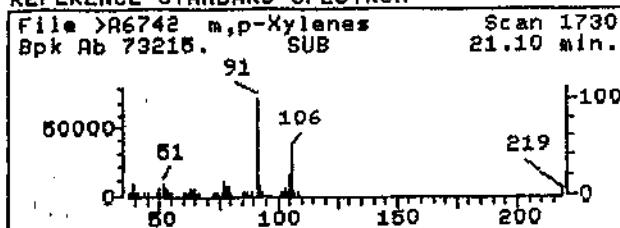
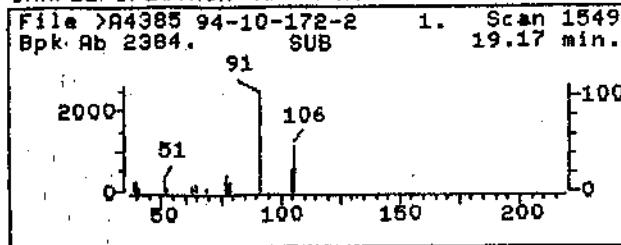
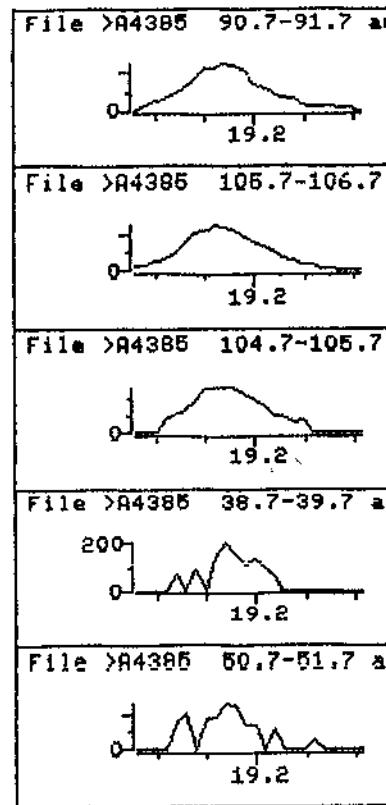
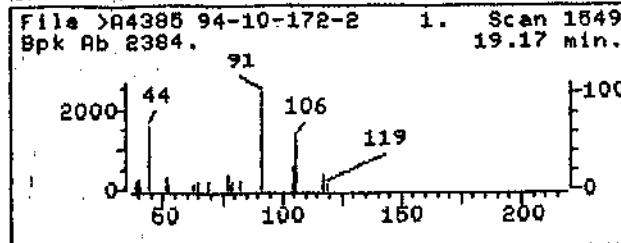
Retention Time: 19.00 min.

Quant Ion : 91.0

Area : 5094

Concentration : 1.55

q-value : 93

REFERENCE STANDARD SPECTRUM**SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)****SAMPLE SPECTRUM (UNALTERED)**

Data File: >A4385::A2

Quant Output File: ^A4385::QT

Name: 94-10-172-2 1.0GM

Instrument ID: SYS1

Misc: 94-10-172-2,QA323S,S,.2,,V,,MRP

Quant ID File: #A1012::SC

Quant Time: 941015 04:33

Last Calibration: 941012 15:19

Injected at: 941015 03:58

Last Qcal Time: <none>

Compound No : 47

Compound Name : m/p-Xylene

Scan Number : 1549

Retention Time: 19.17 min.

Quant Ion : 91.0

Area : 13513

ppb SD
(0) 96(94)

Concentration : 5.42

q-value : 76

RAW DATA

GC/MS VOLATILE ORGANICS LIBRARY SEARCHES

Quant Output File: ^A4369::QT

Data File: >A4369::A2

Name: BLANK CHECK

Misc Data: QVBL:A4369,VA1117,S,.2,,U,,MRP

PLUS Method File: SVDA

Parameters: Minimum % Istd Area to report: 10.00

Absolute maximum number of peaks: 25

Which Istd from output file (1st,2nd...): 1

Maximum number of hits to report: 3

PBM method file: <default>

Maximum number of hits for graphics: 3

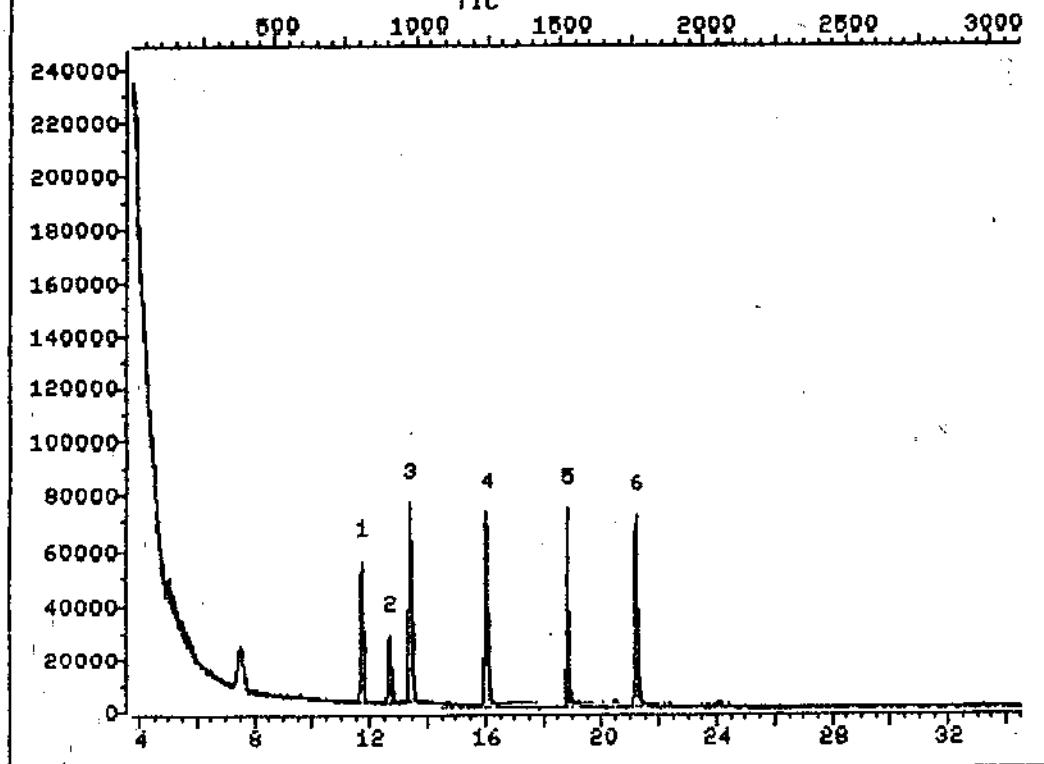
Include TAB of spectra: NO

#	R.T. (min.)	First Scan	Max Scan	Last Scan	Raw Area	Corrected Area	Rank
3	13.38	958	971	989	505169	445689	ISTD 1,4-Diflourobenzene
4	16.03	1225	1238	1256	464052	424810	1
5	18.80	1506	1518	1536	444519	413989	ISTD Chlorobenzene-d5
6	21.18	1745	1758	1777	425391	396833	2
1	11.68	788	800	817	373456	307847	ISTD Bromochloromethane
2	12.66	887	898	910	193537	152878	3

TOTAL ION CHROMATOGRAM for PLUS ANALYSIS

File >A4369 35.0-260.0 amu. BLANK CHECK
TIC

QVBL:A4369,VA1117,S



Data File: >A4369::A2

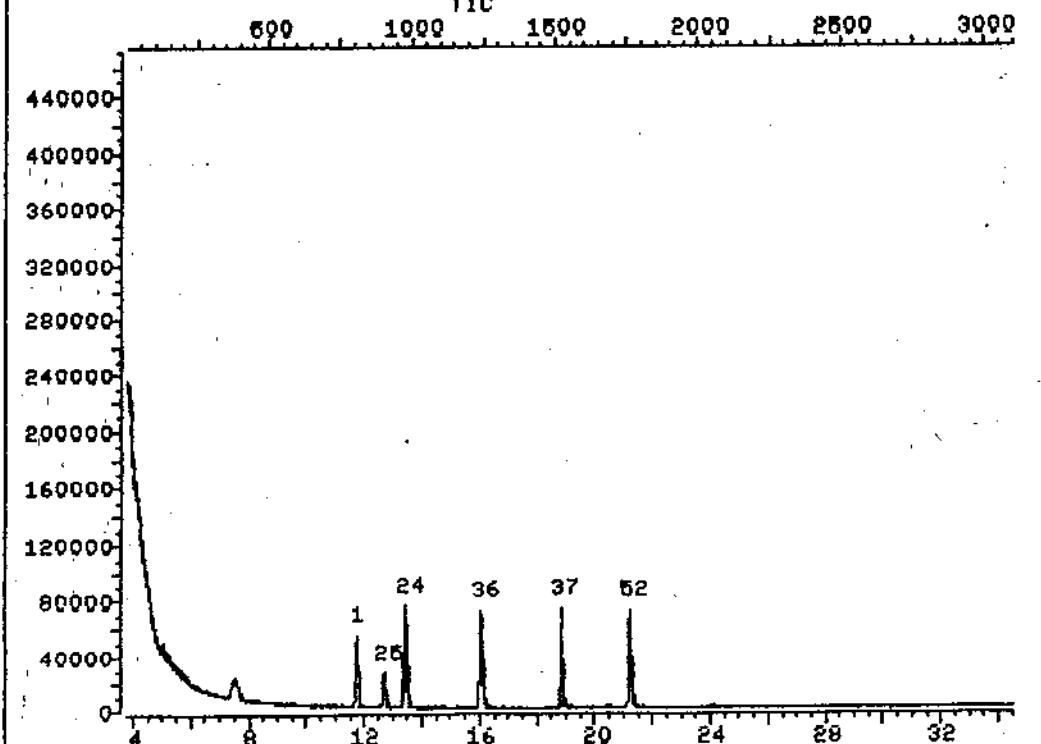
Name: BLANK CHECK

Misc Data: QVBL:A4369,VA1117,S,.2,,U,,MRP

TOTAL ION CHROMATOGRAM for PLUS ANALYSIS

File >A4369 36.0-260.0 amu. BLANK CHECK
TIC

QVBL:A4369,VA1117,S,



Data File: >A4369::A2

Name: BLANK CHECK

Misc Data: QVBL:A4369,VA1117,S,.2,,U,,MRP

INT_Report for PLUS Analysis.....PLUS Version 4.0

Page 1

Quant Output File: ^A4392::QT

Data File: >A4392::A2

Name: BLANK CHECK

Misc Data: QVBL:A4392,VA1118,S,.2,,U,,MRP

PLUS Method File: SYDA

Parameters: Minimum % Istd Area to report: 10.00

Absolute maximum number of peaks: 25

Which Istd from output file (1st,2nd...): 1

Maximum number of hits to report: 3

PBM method file: <default>

Maximum number of hits for graphics: 3

Include TAB of spectra: NO

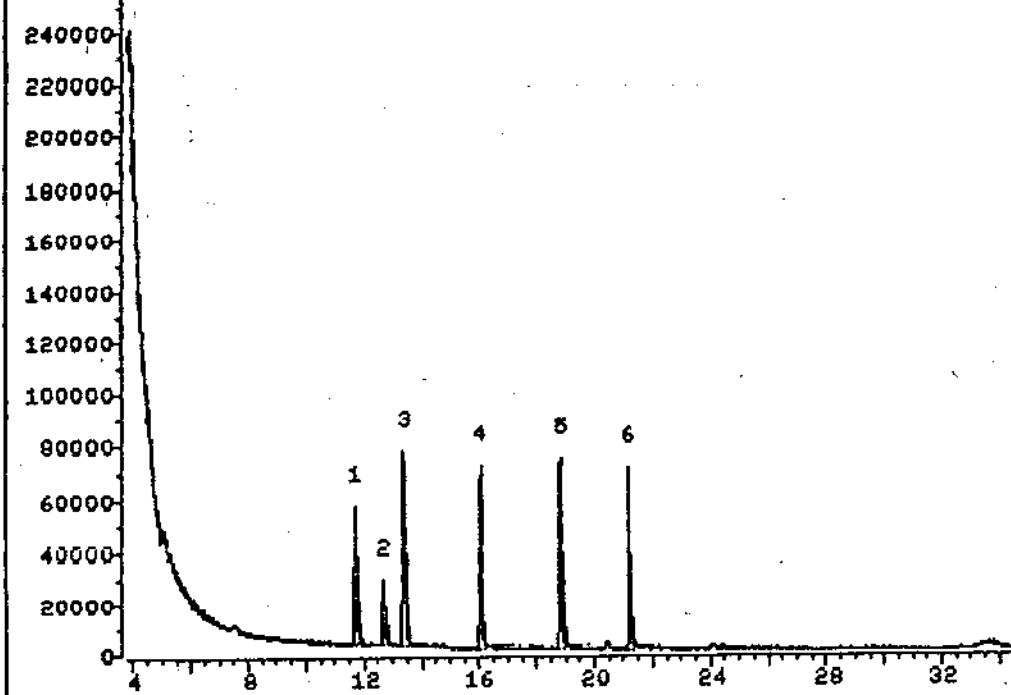
#	R.T. (min.)	First Scan	Max Scan	Last Scan	Raw Area	Corrected Area	Rank	
3	13.38	953	966	990	523698	458879	ISTD	1,4-Difluorobenzene
4	16.03	1221	1234	1252	462268	422341	1	
5	18.80	1501	1513	1531	441283	409219	ISTD	Chlorobenzene-d5
6	21.18	1741	1753	1767	412497	391362	2	
1	11.68	783	795	810	378003	314832	ISTD	Bromochloromethane
2	12.65	882	893	916	220583	157912	3	

TOTAL ION CHROMATOGRAM for PLUS ANALYSIS

File >A4392 36.0-260.0 amu. BLANK CHECK
TIC

QVBL:A4392,VA1118,S,

500 1000 1500 2000 2500 3000

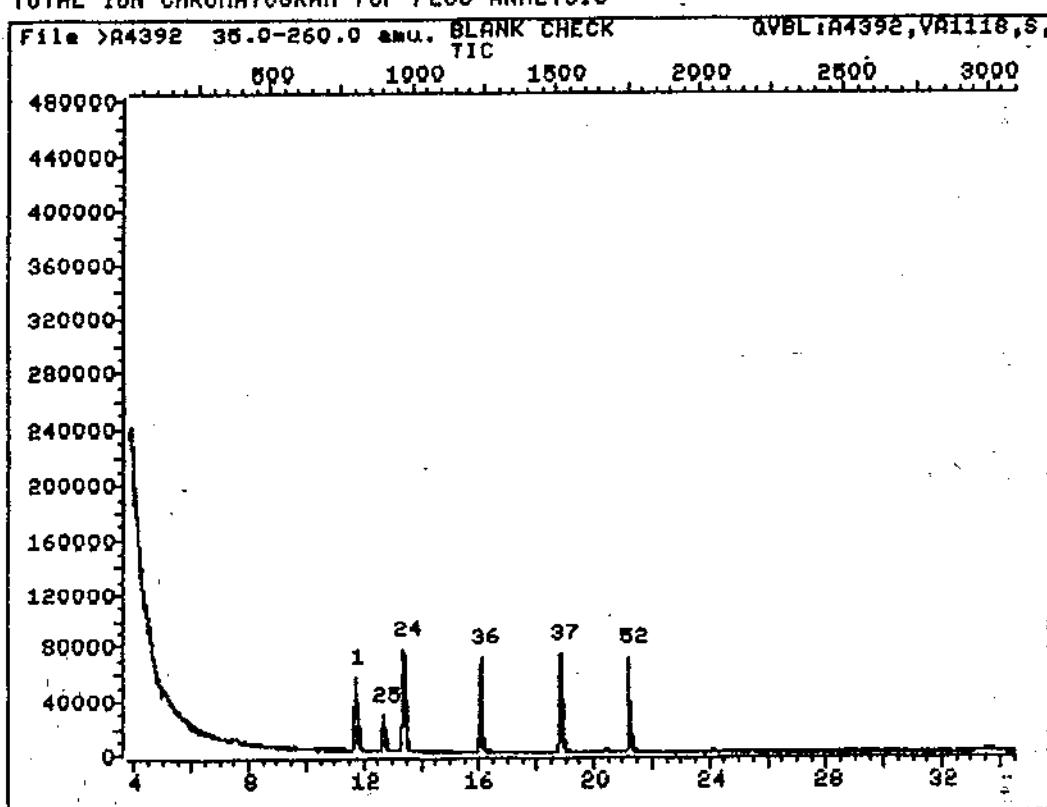


Data File: >A4392::A2

Name: BLANK CHECK

Misc Data: QVBL:A4392,VA1118,S,.2,,U,,MRP

TOTAL ION CHROMATOGRAM for PLUS ANALYSIS



Data File: >A4392::A2
Name: BLANK CHECK
Misc Data: QVBL:A4392,VA1118,S,.2,,U,,MRP

INT Report for PLUS Analysis.....PLUS Version 4.0

Page 1

Quant Output File: ^A4384::QT

Data File: >A4384::A2

Name: 94-10-172-1 1.0GM ✓

Misc. Data: 94-10-172-1,QA323S,S,.2,,U,,MRP

PLUS Method File: SVOA

Parameters: Minimum % Istd Area to report: 10.00

Absolute maximum number of peaks: 25

Which Istd from output file (1st,2nd...): 1

Maximum number of hits to report: 3

PBM method file: <default>

Maximum number of hits for graphics: 3

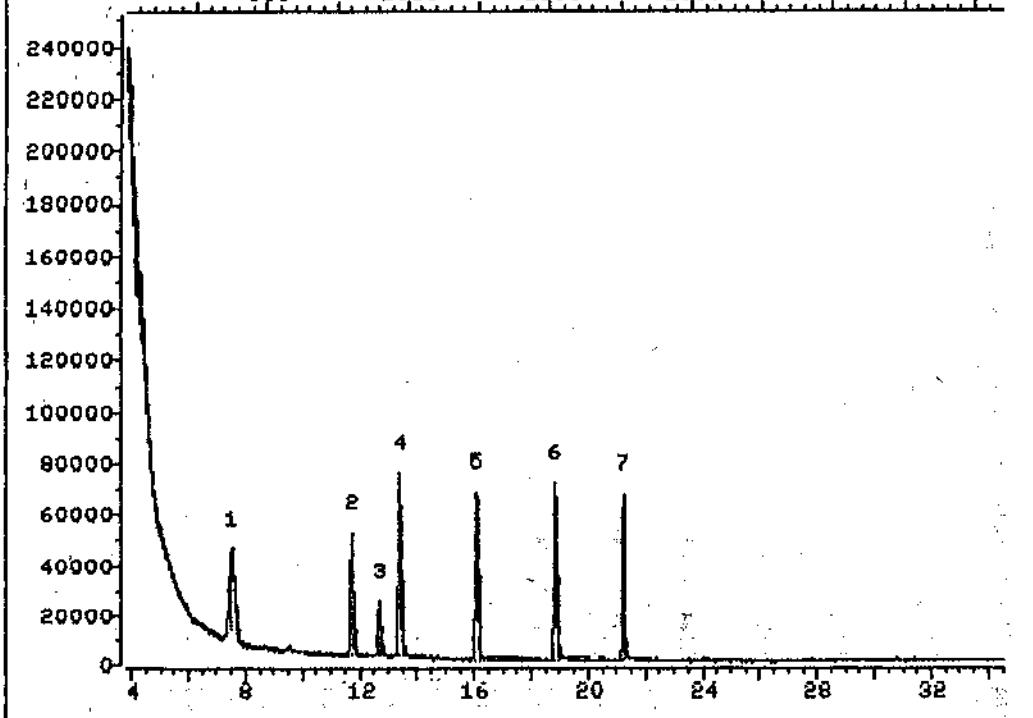
Include TAB of spectra: NO

#	R.T. (min.)	First Scan	Max Scan	Last Scan	Raw Area	Corrected Area	Corrected Rank	
4	13.38	952	965	984	485130	426295	ISTD	1,4-Diflourobenzene
5	16.03	1218	1232	1253	447975	400888	1	
6	18.81	1499	1512	1528	411697	381297	ISTD	Chlorobenzene-d5
7	21.18	1741	1751	1764	375347	351034	2	
2	11.69	783	794	809	343982	278209	ISTD	Bromochloromethane
1	7.48	354	370	371	323048	182454	3	
3	12.65	881	891	909	191588	136416	4	

SD
10/26/94

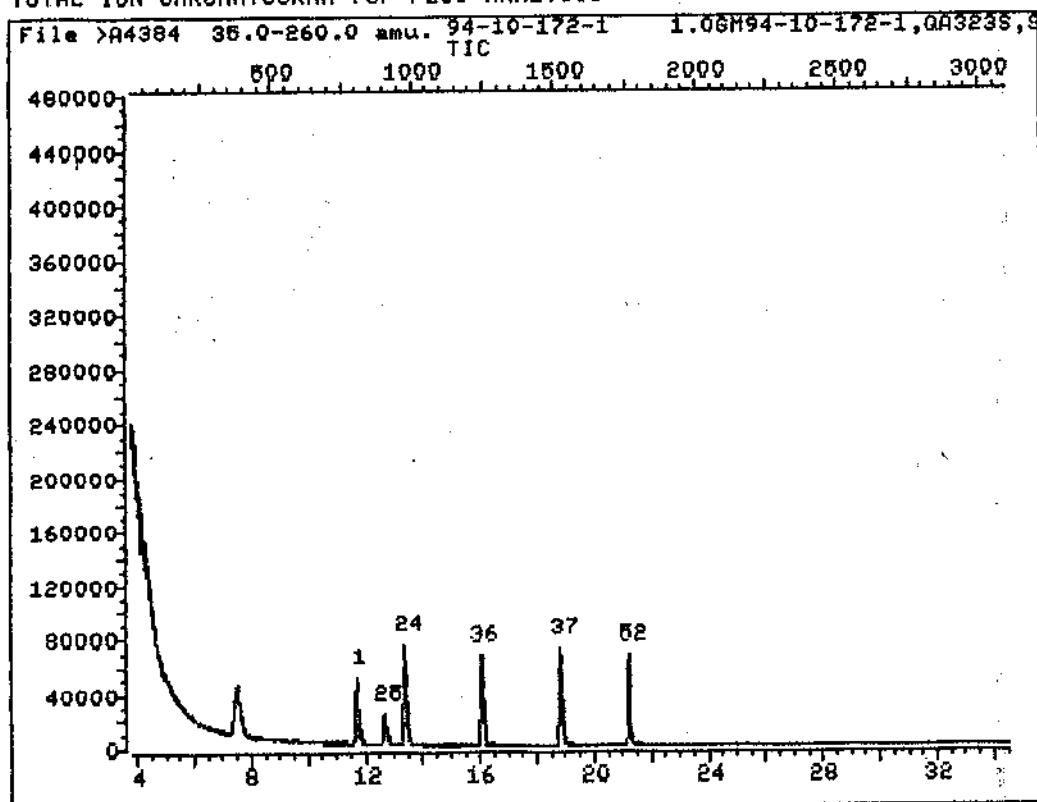
TOTAL ION CHROMATOGRAM for PLUS ANALYSIS

File >A4384 35.0-260.0 amu. 94-10-172-1 1.0GM94-10-172-1,QA323S,S
TIC

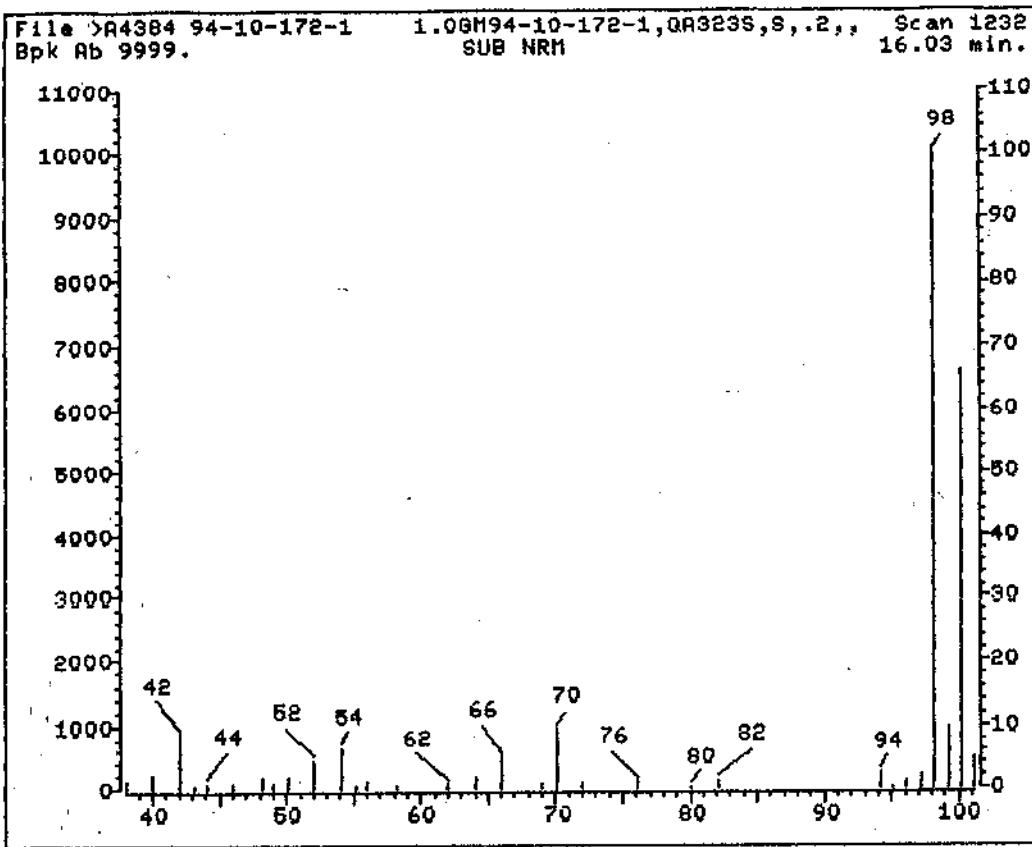


Data File: >A4384::A2
Name: 94-10-172-1 1.0GM
Misc Data: 94-10-172-1,QA323S,S,.2,,U,,MRP

TOTAL ION CHROMATOGRAM for PLUS ANALYSIS



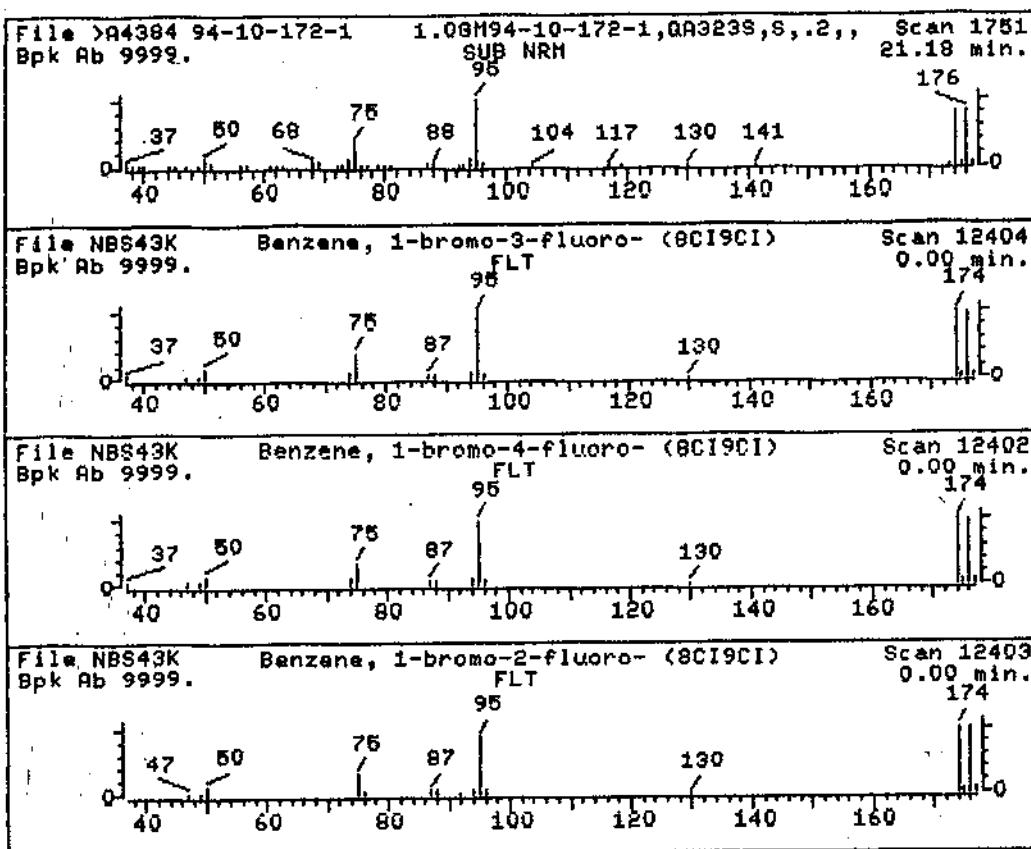
Data File: >A4384::A2
Name: 94-10-172-1 1.0GM
Misc Data: 94-10-172-1,QA323S,S,.2,,U,,MRP



51

Data File: >A4384::A2
Name: 94-10-172-1 1.0GM
Misc Data: 94-10-172-1,QA323S,S,.2,,U,,MRP
RT (min): 16.03
Scan: 1232
Area: 400888 Rank: 1
Semi-quantitative Conc (uncorrected): 47.02 ppb
Semi-quantitative Conc (corrected): 235.10 ug/kg
Calculated using Istd: 1,4-Difluorobenzene @ 13.38 minutes

No PBM hits for this scan.



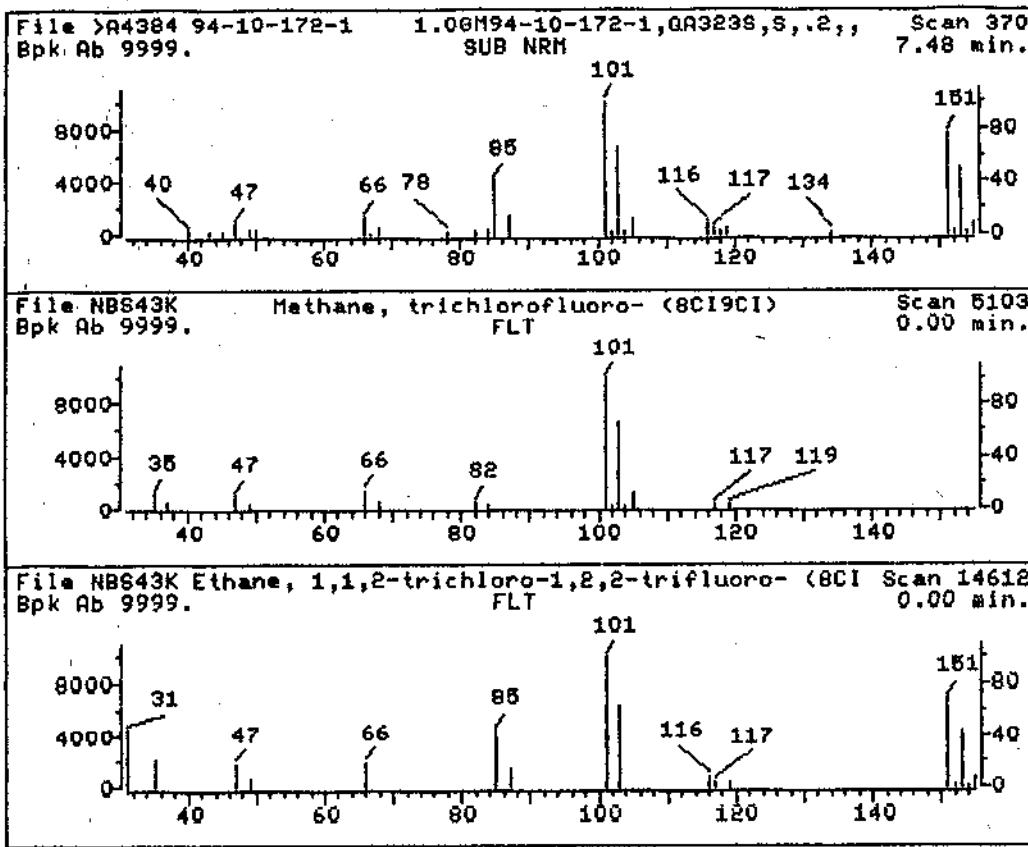
S.

Data File: >A4384::A2
Name: 94-10-172-1 1.0GM
Misc Data: 94-10-172-1,QA323S,S,.2,,U,,MRP
RT (min): 21.18
Scan: 1751
Area: 351034 Rank: 2
Semi-quantitative Conc (uncorrected): 46.03 ppb
Semi-quantitative Conc (corrected): 230.16 ug/kg
Calculated using Istd: Chlorobenzene-d5 @ 18.81 minutes

#ru,PRE , ,PBR177,,,1,3
1. Benzene, 1-bromo-3-fluoro- (BCI9CI) 174 C6H4BrF
2. Benzene, 1-bromo-4-fluoro- (BCI9CI) 174 C6H4BrF
3. Benzene, 1-bromo-2-fluoro- (BCI9CI) 174 C6H4BrF

Sample file: >A4384 Spectrum #: 1751
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96*	1073069	21457	NBS43K	105	8	1	0	22	0	268	96
2.	87*	460004	21455	NBS43K	72	38	0	0	54	32	40	89
3.	83*	1072851	21456	NBS43K	81	26	1	0	67	13	51	77



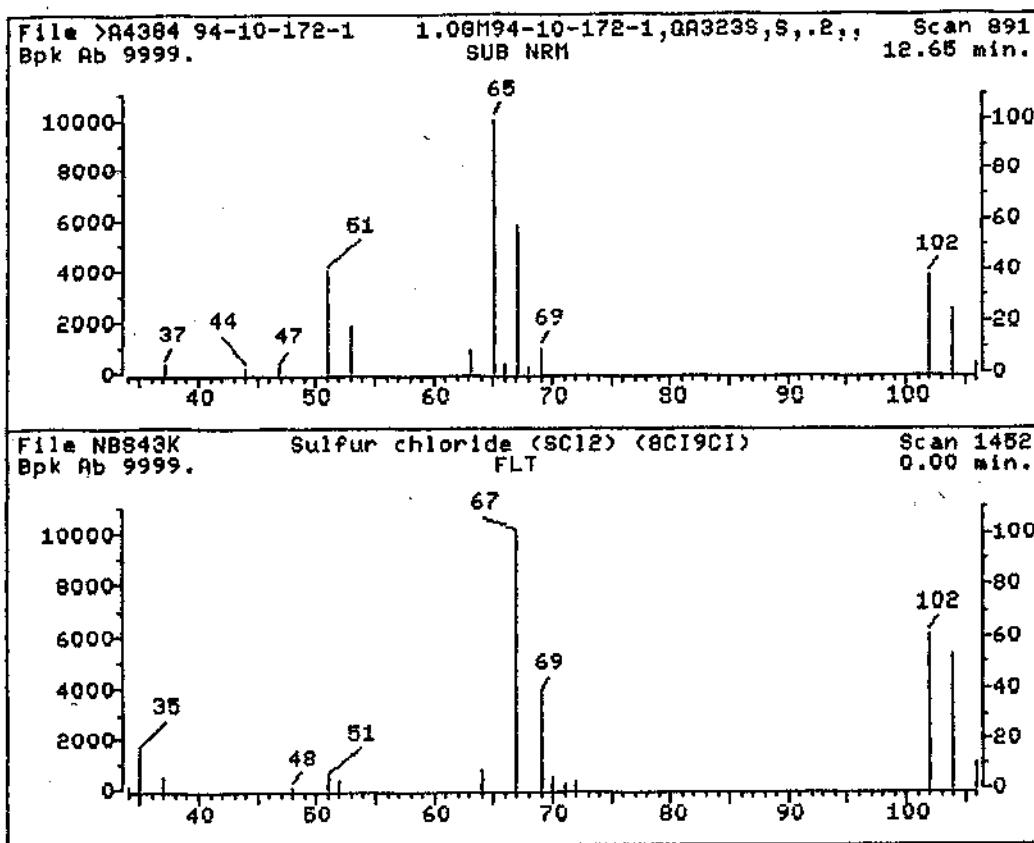
Data File: >A4384::A2
Name: 94-10-172-1 1.0GM
Misc Data: 94-10-172-1,QA323S,S,.2,,U,,MRP
RT (min): 7.48
Scan: 370
Area: 182454 Rank: 3
Semi-quantitative Conc (uncorrected): 32.79 ppb
Semi-quantitative Conc (corrected): 163.95 ug/kg
Calculated using Istd: Bromochloromethane @ 11.69 minutes

*ru,PRE , ,PBR177,,,1,3
1. Methane, trichlorofluoro- (8CI9CI) 136 CC13F
② Ethane, 1,1,2-trichloro-1,2,2-trifluoro- (8CI9CI) 186 C2C13F3

Sample file: >A4384 Spectrum #: 370
Search speed: 1 Tilting option: N No. of ion ranges searched: 44

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1	21	75694	9426	NBS43K	70	26	1	0	90	57	5 35
②	20	76131	9515	NBS43K	30	91	0	0	45	52	5 15

169



Data File: >A4384::A2
Name: 94-10-172-1 1.0GM
Misc Data: 94-10-172-1,QA323S,S,.2,,U,,MRP
RT (min): 12.65
Scan: 891
Area: 136416 Rank: 4
Semi-quantitative Conc (uncorrected): 16.00 ppb
Semi-quantitative Conc (corrected): 80.00 ug/kg
Calculated using Istd: 1,4-Difluorobenzene @ 13.38 minutes

#ru,PRE ,PBR177,,,1,3
1. Sulfur chloride (SCl₂) (8Cl9Cl) 102 C12S

Sample file: >A4384 Spectrum #: 891
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TI LT	%	CON	C_I	R_IV
1.	15* 10545990	9646	NBS43K	23	76	3	0	57	60	3	12

INT Report for PLUS Analysis.....PLUS Version 4.0

Page 1

Quant Output File: ^A4385::QT

Data File: >A4385::A2

Name: 94-10-172-2 1.0GM

Misc Data: 94-10-172-2,QA323S,S,.2,,U,,MRP

PLUS Method File: SVDA

Parameters: Minimum % Istd Area to report: 10.00

Absolute maximum number of peaks: 25

Which Istd from output file (1st,2nd...): 1

Maximum number of hits to report: 3

PBM method file: <default>

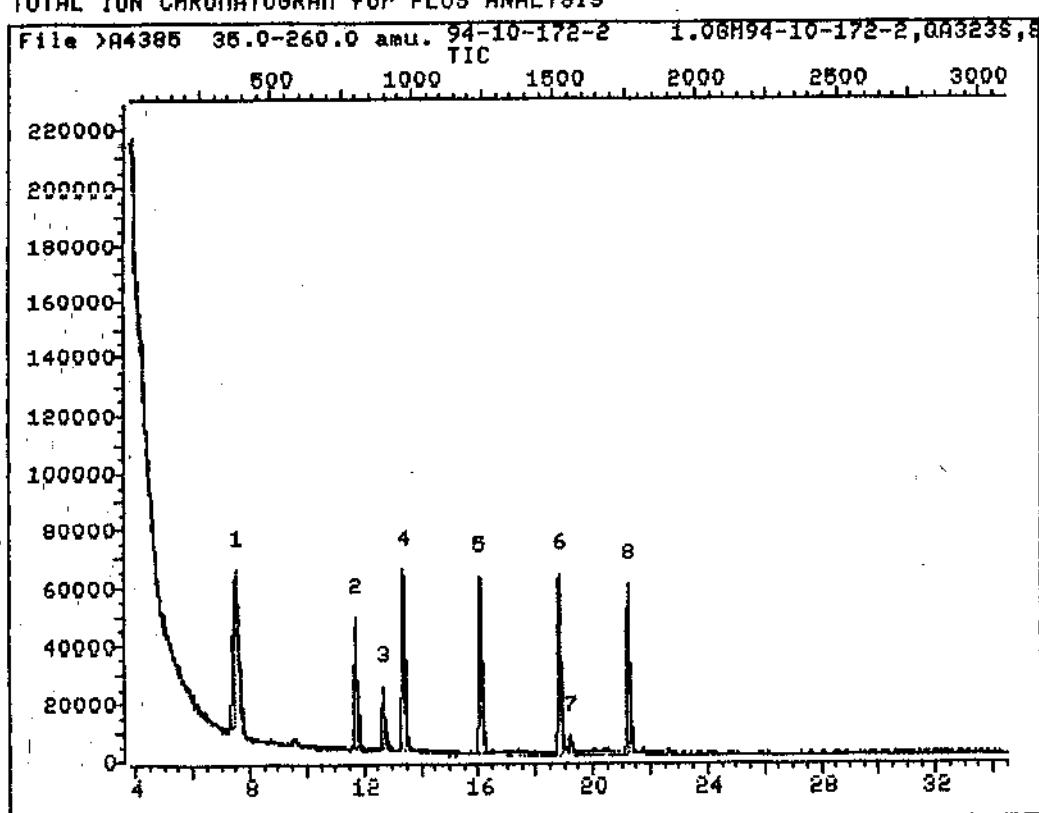
Maximum number of hits for graphics: 3

Include TAB of spectra: NO

#	R.T. (min.)	First Scan	Max Scan	Last Scan	Raw Area	Corrected Area	Rank	
4	13.38	953	965	983	445003	384875	ISTD	1,4-Difluorobenzene
5	16.02	1217	1232	1254	425646	378230	1	
1	7.51	351	373	374	530043	377042	2	
6	18.81	1501	1513	1526	377109	348614	ISTD	Chlorobenzene-d5
8	21.18	1740	1752	1762	338030	315609	3	
2	11.68	782	794	808	323104	263963	ISTD	Bromochloromethane
3	12.65	882	892	908	181697	126470	4	
7	19.17	1541	1549	1562	60597	34532	5	

SP
10/96/94

TOTAL ION CHROMATOGRAM for PLUS ANALYSIS

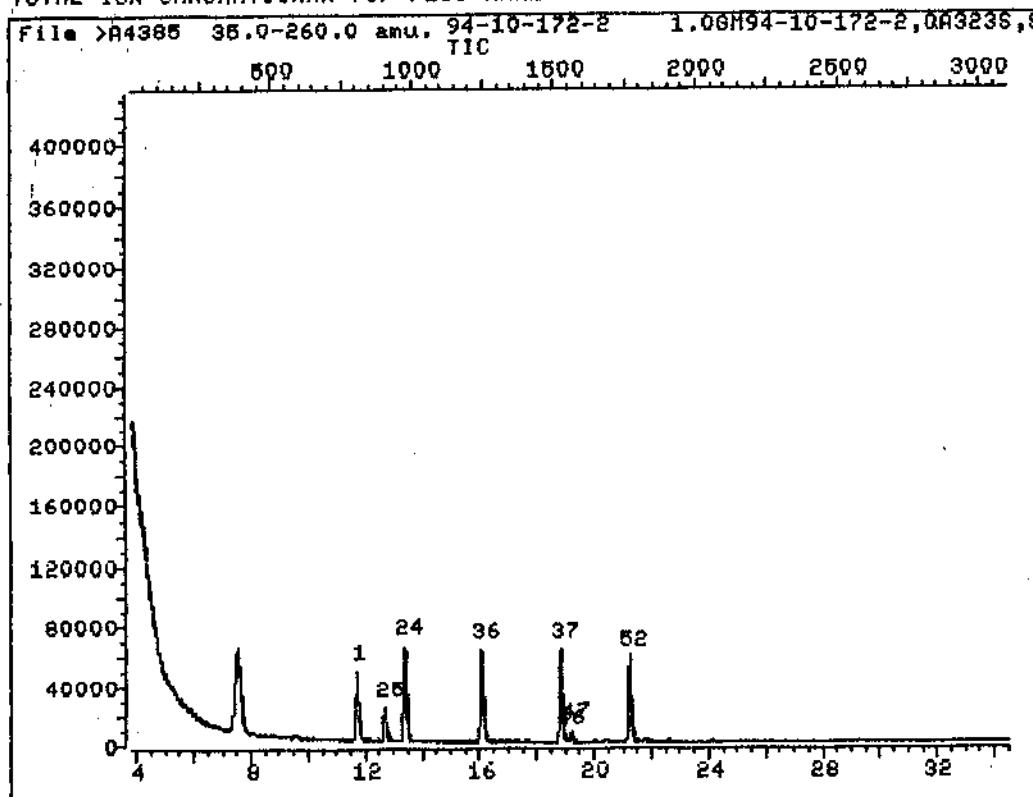


Data File: >A4385::A2

Name: 94-10-172-2 1.0GM

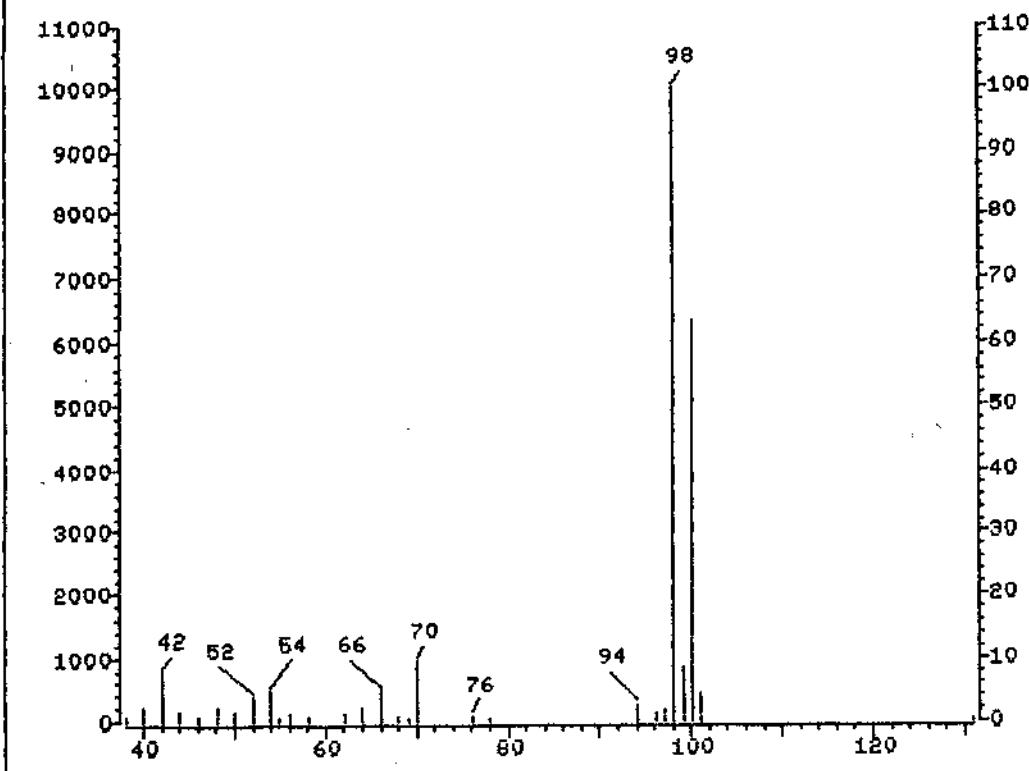
Misc Data: 94-10-172-2,QA323S,S,.2,,V,,MRP

TOTAL ION CHROMATOGRAM for PLUS ANALYSIS



Data File: >A4385::A2
Name: 94-10-172-2 1.0GM
Misc Data: 94-10-172-2,QA323S,S,.2,,U,,MRP

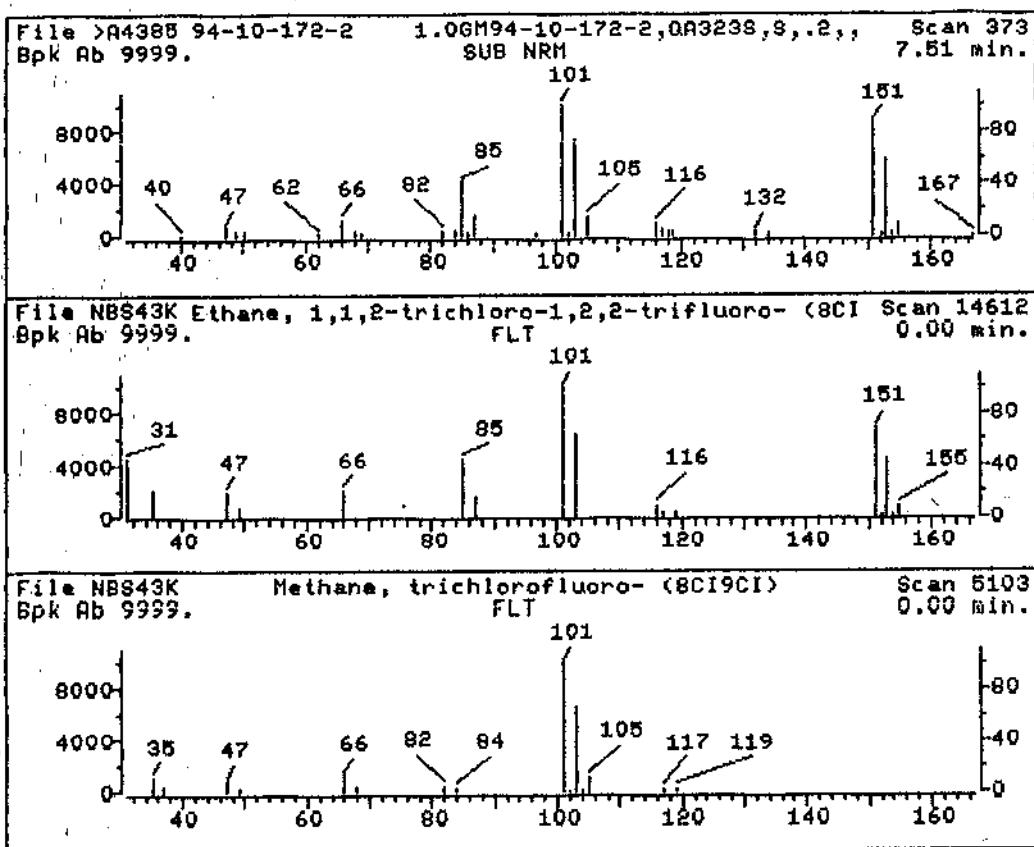
File >A4385 94-10-172-2 1.0GM94-10-172-2,QA323S,S,.2,, Scan 1232
Bpk Ab 9999. SUB NRM 16.02 min.



5

Data File: >A4385::A2
Name: 94-10-172-2 1.0GM
Misc Data: 94-10-172-2,QA323S,S,.2,,U,,MRP
RT (min): 16.02
Scan: 1232
Area: 378230 Rank: 1
Semi-quantitative Conc (uncorrected): 49.14 ppb
Semi-quantitative Conc (corrected): 245.68 ug/kg
Calculated using Istd: 1,4-Diflouorobenzene @ 13.38 minutes

No PBM hits for this scan.



Data File: >A4385::A2

Name: 94-10-172-2 1.0GM

Misc Data: 94-10-172-2,QA323S,S,.2,,U,,MRP

RT (min): 7.51

Scan: 373

Area: 377042 Rank: 2

Semi-quantitative Conc (uncorrected): 71.42 ppb

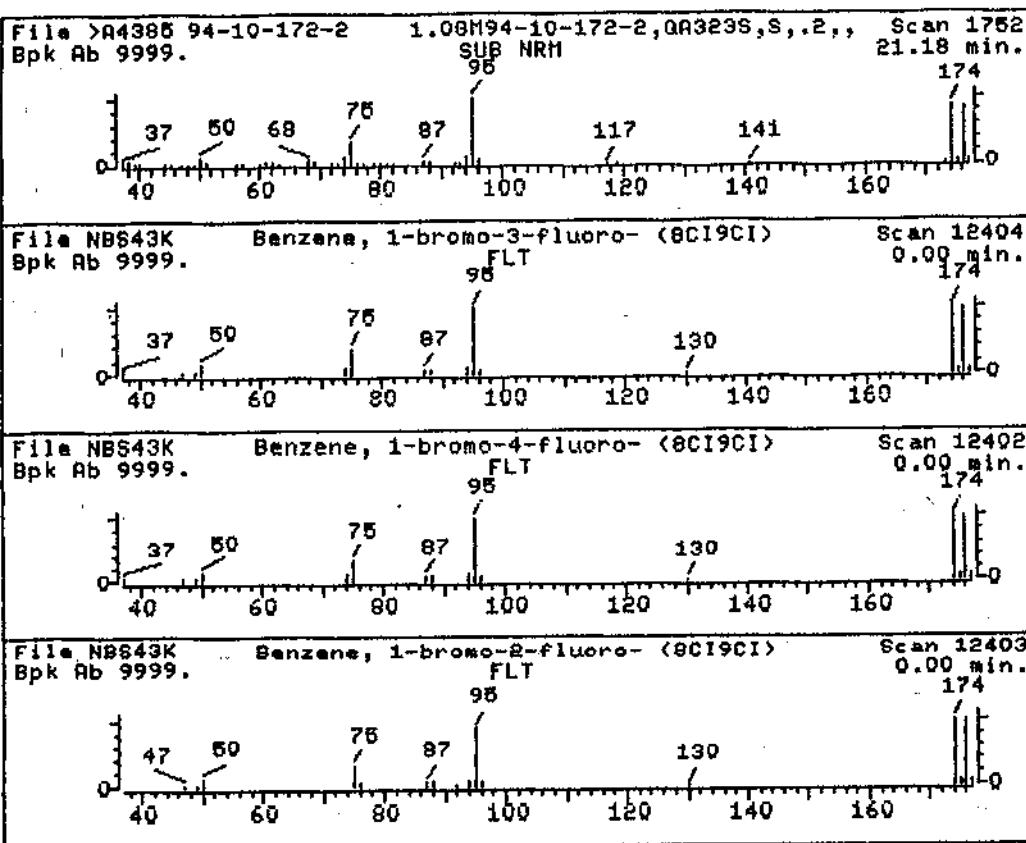
Semi-quantitative Conc (corrected): 357.10 ug/kg

Calculated using Istd: Bromochloromethane @ 11.68 minutes

#rm PRE ,,PBR177,,,1,3
 ① 1. Ethane, 1,1,2-trichloro-1,2,2-trifluoro- (8CI9CI) 186 C2C13F3
 2. Methane, trichlorofluoro- (8CI9CI) 136 CC13F

Sample file: >A4385 Spectrum #: 373
 Search speed: 1 Tilting option: N No. of ion ranges searched: 44

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	78	76131	9515	NBS43K	89	49	3	0	92	3	55
2.	15	75694	9426	NBS43K	54	42	1	0	67	58	3



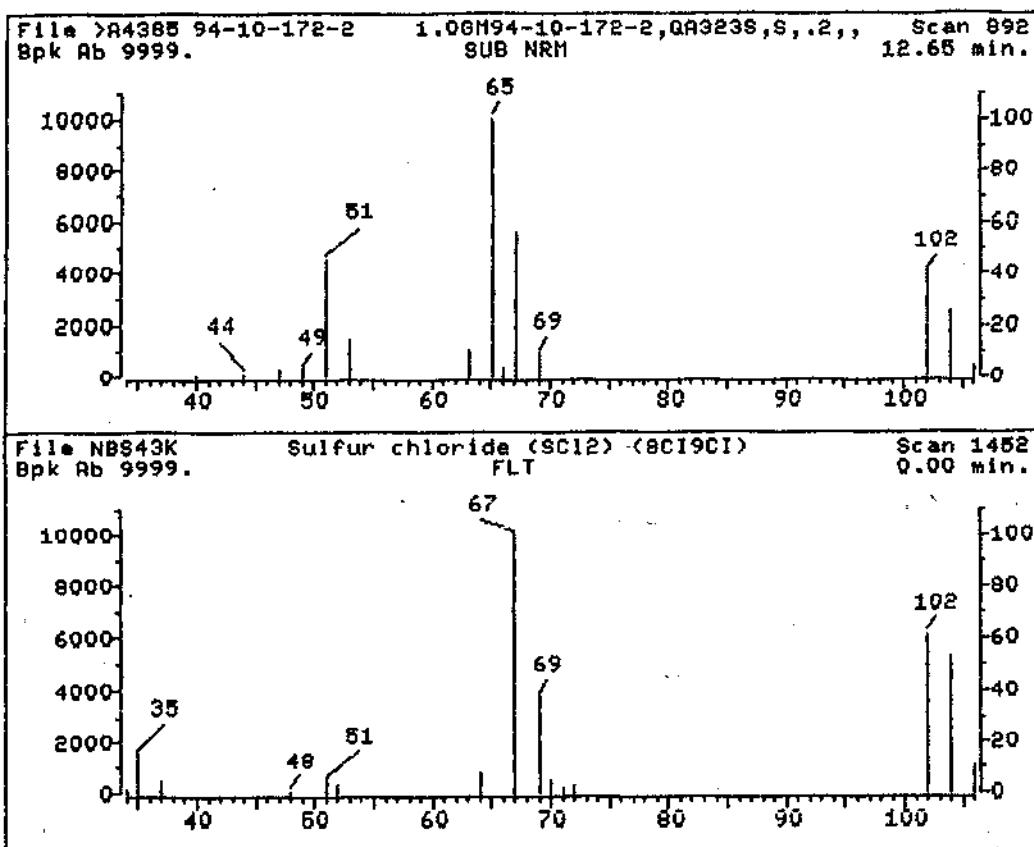
S1

Data File: >A4385::A2
Name: 94-10-172-2 1.0GM
Misc Data: 94-10-172-2,QA323S,S,.2,,U,,MRP
RT (min): 21.18
Scan: 1752
Area: 315609 Rank: 3
Semi-quantitative Conc (uncorrected): 45.27 ppb
Semi-quantitative Conc (corrected): 226.33 ug/kg
Calculated using Istd: Chlorobenzene-d5 @ 18.81 minutes

#ru,PRE ,,PBR177,,,1,3
1. Benzene, 1-bromo-3-fluoro- (BCI9CI) 174 C6H4BrF
2. Benzene, 1-bromo-4-fluoro- (BCI9CI) 174 C6H4BrF
3. Benzene, 1-bromo-2-fluoro- (BCI9CI) 174 C6H4BrF

Sample file: >A4385 Spectrum #: 1752
Search speed: 1 Tilting option: N No. of ion ranges searched: 41

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96*	1073069	21457	NBS43K	101	12	1	0	72	1	72	94
2.	96*	460004	21455	NBS43K	99	11	1	0	72	1	72	94
3.	81*	1072851	21456	NBS43K	77	30	1	0	72	17	45	74



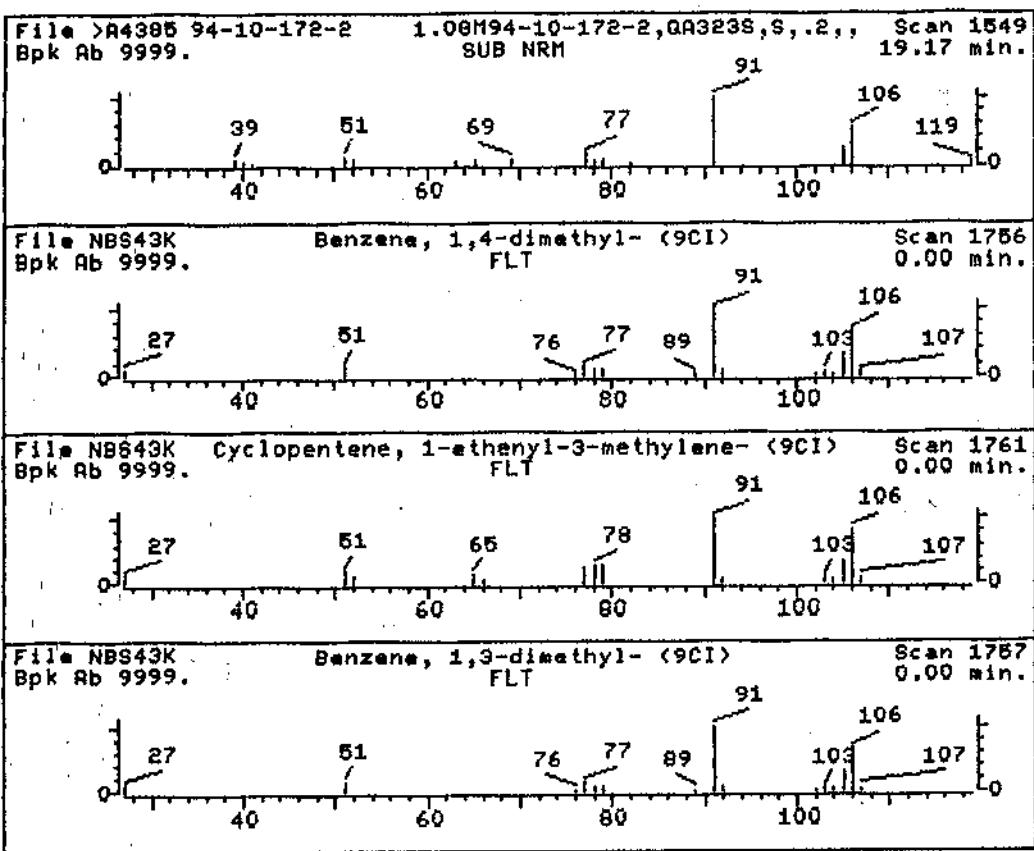
S?

Data File: >A4385::A2
Name: 94-10-172-2 1.0GM
Misc Data: 94-10-172-2,QA323S,S,.2,,U,,MRP
RT (min): 12.65
Scan: 892
Area: 126470 Rank: 4
Semi-quantitative Conc (uncorrected): 16.43 ppb
Semi-quantitative Conc (corrected): 82.15 ug/kg
Calculated using Istd: 1,4-Difluorobenzene @ 13.38 minutes

#ru,PRE ,,PBR177,,,1,3
1. Sulfur chloride (SCl₂) (8Cl9CI) 102 C12S

Sample file: >A4385 Spectrum #: 892
Search speed: 1 Tilting option: N No. of ion ranges searched: 44

Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TI LT	%	CON	C_I	R_IV
1.	15* 10545990	9646	NBS43K	24	60	2	0	47	57	3	14



Data File: >A4385::A2
 Name: 94-10-172-2 1.0GM
 Misc Data: 94-10-172-2,QA323S,S,.2,,U,,MRP
 RT (min): 19.17
 Scan: 1549
 Area: 34532 Rank: 5
 Semi-quantitative Conc (uncorrected): 4.95 ppb
 Semi-quantitative Conc (corrected): 24.76 ug/kg
 Calculated using Istd: Chlorobenzene-d5 @ 18.81 minutes

#ru,PRE , ,PBR177,,1,3
 1. Benzene, 1,4-dimethyl- (9CI) 106 C8H10
 2. Cyclopentene, 1-ethenyl-3-methylene- (9CI) 106 C8H10
 3. Benzene, 1,3-dimethyl- (9CI) 106 C8H10

Sample file: >A4385 Spectrum #: 1549
 Search speed: 1 Tilting option: N No. of ion ranges searched: 43

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	76*	106423	10060	NBS43K	42	51	2	0	81	10	45	22
2.	70*	61142072	10063	NBS43K	45	60	2	0	66	8	42	17
3.	70*	108383	10061	NBS43K	35	57	2	0	83	10	42	17

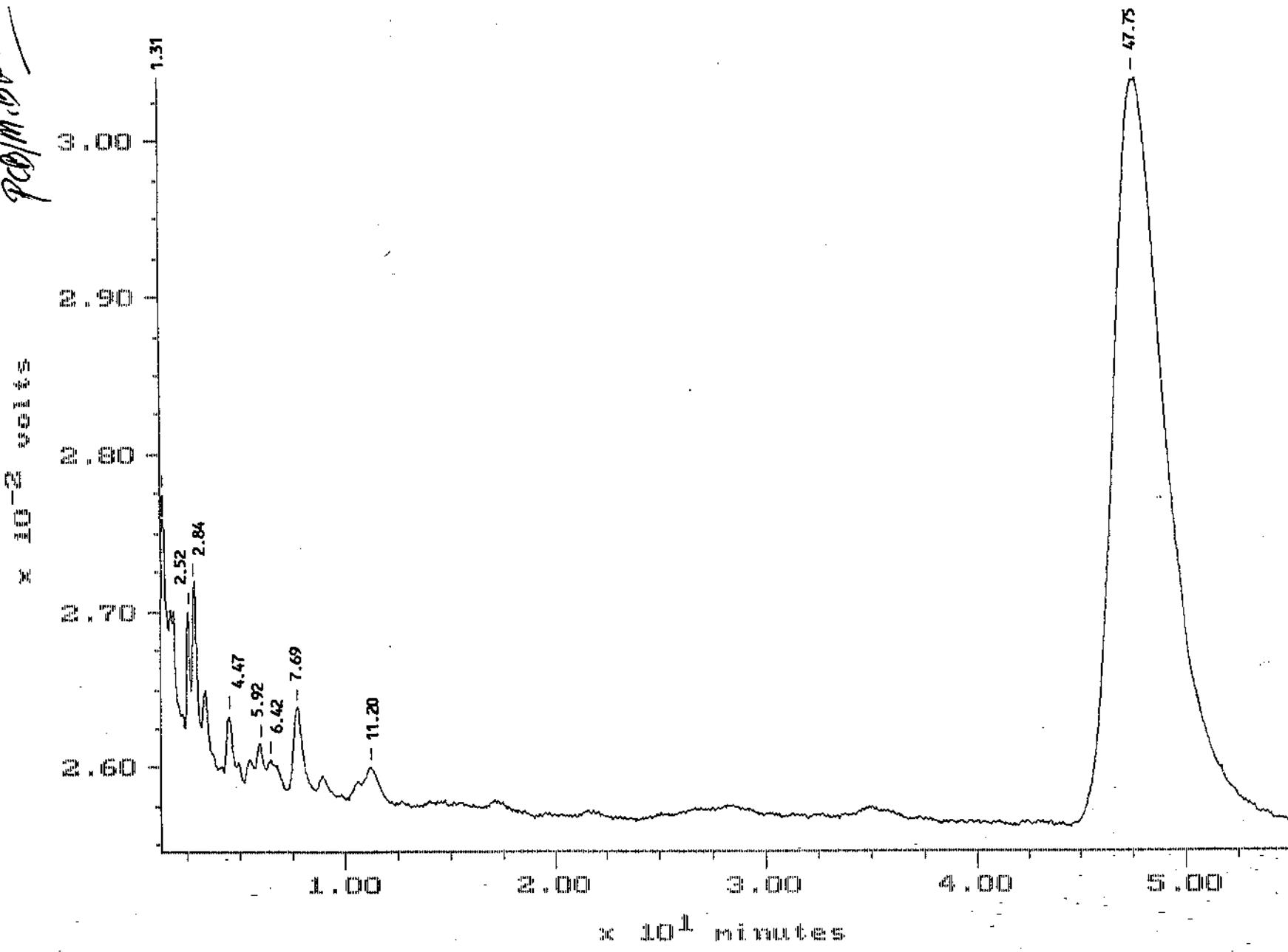
RAW DATA

GC - EXTRACTABLE ORGANICS

Sample: 101494416301BLK
Acquired: 22-OCT-94 20:16
Comments: PE8300 1.5%SP2250/1.95%SP2401 SUPERCOPORT 6FT X 4mm ID Sulf A/S INJ

Filename: PC102122
Operator: MAB

Channel: detector 1
Method: C:\MAX\DATA2\PC10-21



MAXIMA 820 CUSTOM REPORT

Printed: 26-OCT-1994 10:11:43

SAMPLE: 101494416301BLK

#37 in Method: A1260 CALIBRATION PE8500

Acquired: 22-OCT-1994 20:16

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: UNKN

Instrument: Instrument 2

Filename: PC102122

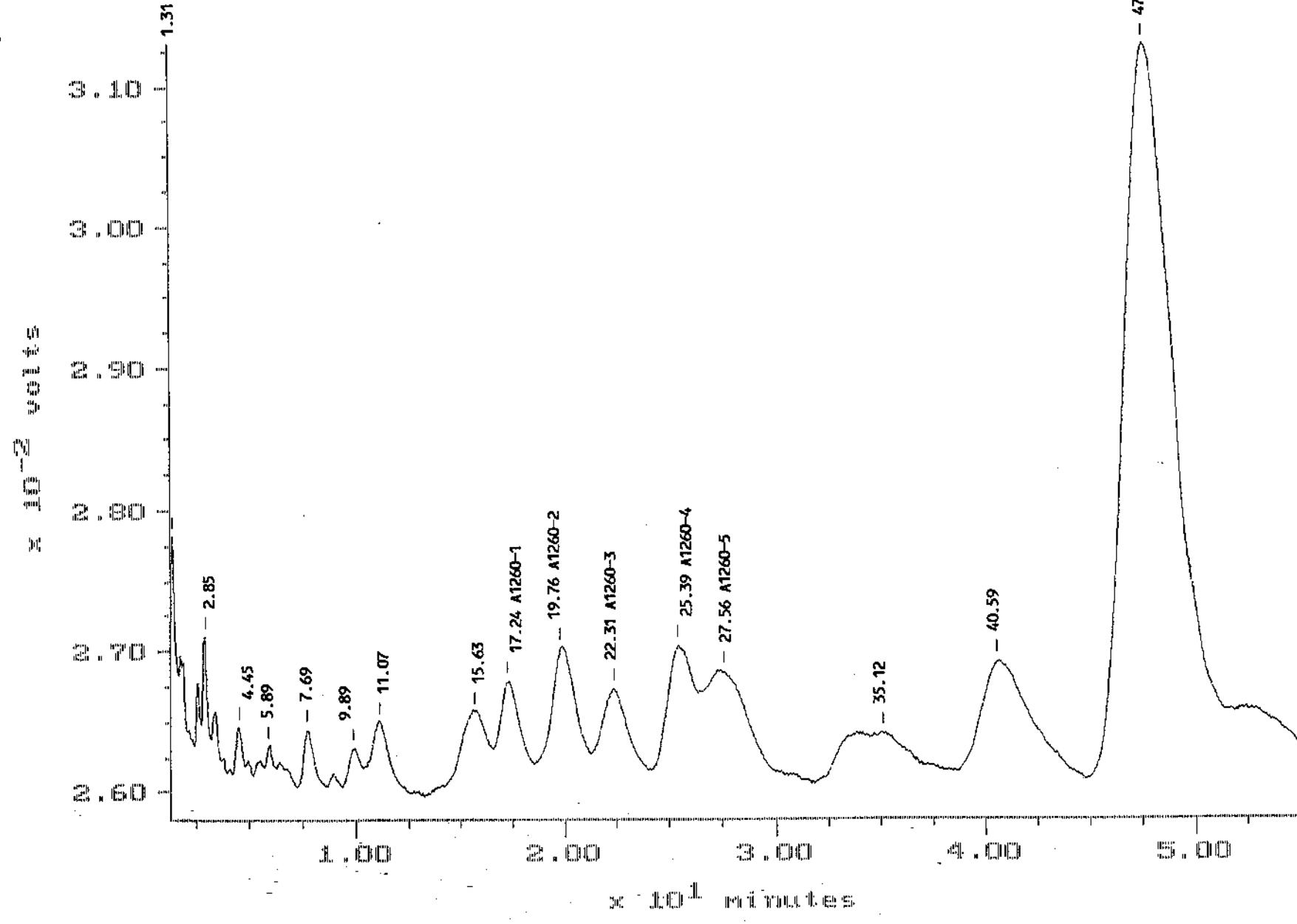
Index: Disk

DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		1.313	DB	790	6996	1.02				
2		2.517	BB	619	5428	0.79				
3		2.840	BB	674	6610	0.96				
4		4.470	BB	326	5367	0.78				
5		5.920	BP	193	5905	0.86				
6		6.420	PB	87	2746	0.40				
7		7.690	BB	465	11475	1.67				
8		11.197	BB	108	3265	0.48				
9	6	47.747	BB	4262	639472	93.05	EXT	AREA	124.19	DBC
TOTAL				7521	687263				124.19	

Sample: 101494\16301SPK Channel: detector 1
Acquired: 22-OCT-94 21:11 Method: C:\MAX\DATA2\PC10-21
Comments: PE3500 1.5%SP2250/1.95%SP2401 SUPELCOPORT 6FT x 4mm ID Sul A/S INJ

Filename: PC102123
Operator: MAB



MAXIMA 820 CUSTOM REPORT

Printed: 26-OCT-1994 10:13:32

SAMPLE: 101494416301SPK
 #38 in Method: A1260 CALIBRATION PE8500
 Acquired: 22-OCT-1994 21:11
 Rate: 5.0 points/sec
 Duration: 55.000 minutes
 Operator: MAB

Type: UNKN
 Instrument: Instrument 2
 Filename: PC102123
 Index: Disk

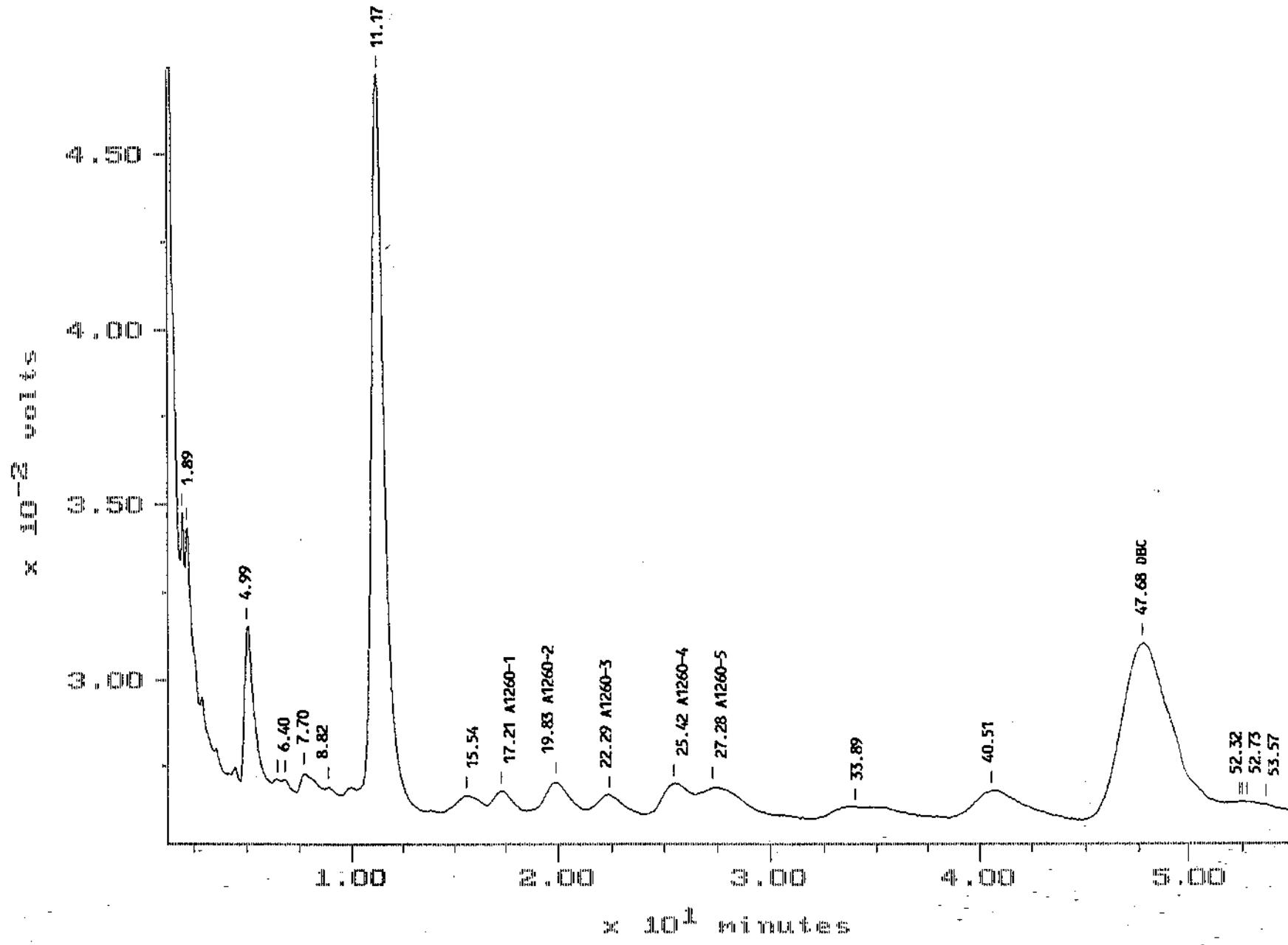
DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		1.307	DB	1046	13648	1.15				
2		2.850	BP	671	11152	0.94				
3		4.453	PP	330	7127	0.60				
4		5.893	PP	184	7099	0.60				
5		7.690	PP	406	15259	1.29				
6		9.890	PP	207	6180	0.52				
7		11.070	PB	392	17656	1.49				
8		15.630	BP	364	24728	2.09				
9	1	17.243	PB	516	26202	2.21	EXT	AREA	181.04	A1260-1
10	2	19.763	BB	773	50495	4.27	EXT	AREA	160.40	A1260-2
11	3	22.313	BB	483	34607	2.92	EXT	AREA	172.98	A1260-3
12	4	25.390	BB	576	35468	3.00	EXT	AREA	159.20	A1260-4
13	5	27.560	BB	321	32460	2.74	EXT	AREA	193.29	A1260-5
14		35.120	BP	299	62624	5.29				
15		40.587	PB	783	119682	10.11				
16	6	47.747	BB	4810	718839	60.75	EXT	AREA	140.51	DBC
TOTAL				12161	1183228				1007.43	

87 Total

Sample: 9/100178-1|MS channel: detector 1
Acquired: 22-OCT-94 22:06 Method: C:\MAX\DATA2\PC10-21
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPERCOPTOR 6ft X 4mm ID Sut A/S INJ

Filename: PC102124
Operator: MAB



MAXIMA 820 CUSTOM REPORT

Printed: 26-OCT-1994 10:16:06

SAMPLE: 94100178-1;MS

#39 in Method: A1260 CALIBRATION PE8500

Acquired: 22-OCT-1994 22:06

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: UNKN

Instrument: Instrument 2

Filename: PC102124

Index: Disk

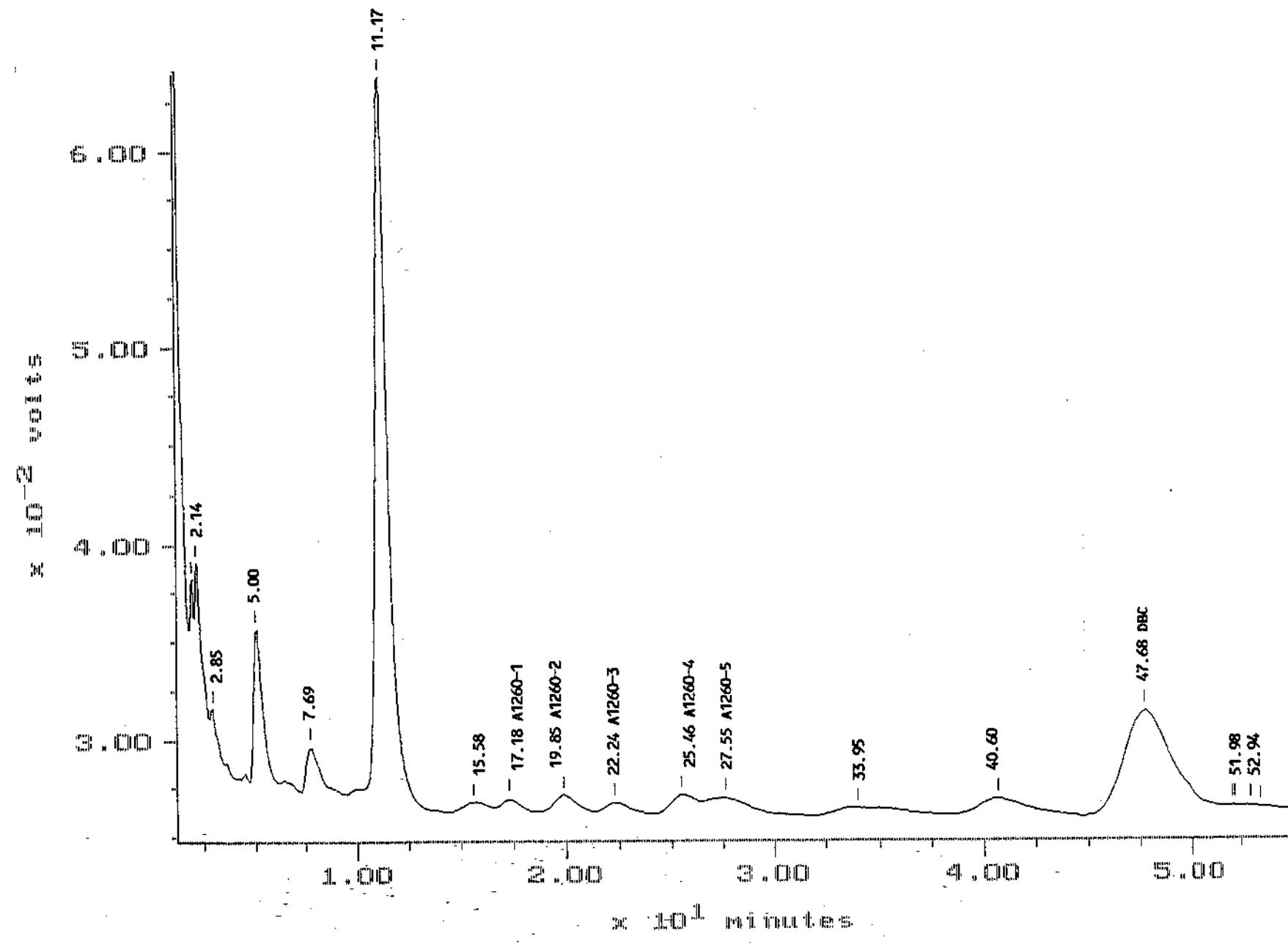
DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		1.893	BP	1807	13983	0.70				
2		2.123	PB	2282	29839	1.49				
3		4.993	BP	4439	131830	6.60				
4		6.400	PP	85	1175	0.06				
5		6.720	PP	121	1896	0.10				
6		7.703	PP	522	19662	0.99				
7		8.817	PB	110	2086	0.10				
8		11.167	BB	20106	819616	41.06				
9		15.543	BP	371	24262	1.22				
10	1	17.210	PB	473	25497	1.28	EXT	AREA	174.88	A1260-1
11	2	19.827	BB	763	49998	2.50	EXT	AREA	158.48	A1260-2
12	3	22.293	BB	469	31031	1.55	EXT	AREA	151.54	A1260-3
13	4	25.417	BP	564	36866	1.85	EXT	AREA	167.11	A1260-4
14	5	27.283	PB	354	37867	1.90	EXT	AREA	227.77	A1260-5
15		33.887	BB	206	28302	1.42				
16		40.510	BB	675	83124	4.16				
17	6	47.680	BB	4528	648877	32.51	EXT	AREA	126.12	DBC
18		52.323	BP	31	292	0.01				
19		52.477	PP	25	201	0.01				
20		52.727	PP	22	834	0.04				
21		53.570	PD	12	-8825	0.44				
TOTAL				37963	1996064				1005.89	

Sample: 94100178-1.lmsd channel: detector 1
Acquired: 22-OCT-94 23:02 Method: C:\MAX\DATA2\PC10-21
Comments: PE800 1.5%SP2250/1.95%SP2401 SUPELCOPORT 6FT X 4mm ID 5uL A/S INJ

Filename: PC10225

Operator: MAB



MAXIMA 820 CUSTOM REPORT

Printed: 26-OCT-1994 10:18:28

SAMPLE: 94100178-1\MSD
 #40 in Method: A1260 CALIBRATION PE8500
 Acquired: 22-OCT-1994 23:02
 Rate: 5.0 points/sec
 Duration: 55.000 minutes
 Operator: MAB

Type: UNKN
 Instrument: Instrument 2
 Filename: PC102125
 Index: Disk

DETECTOR: detector 1

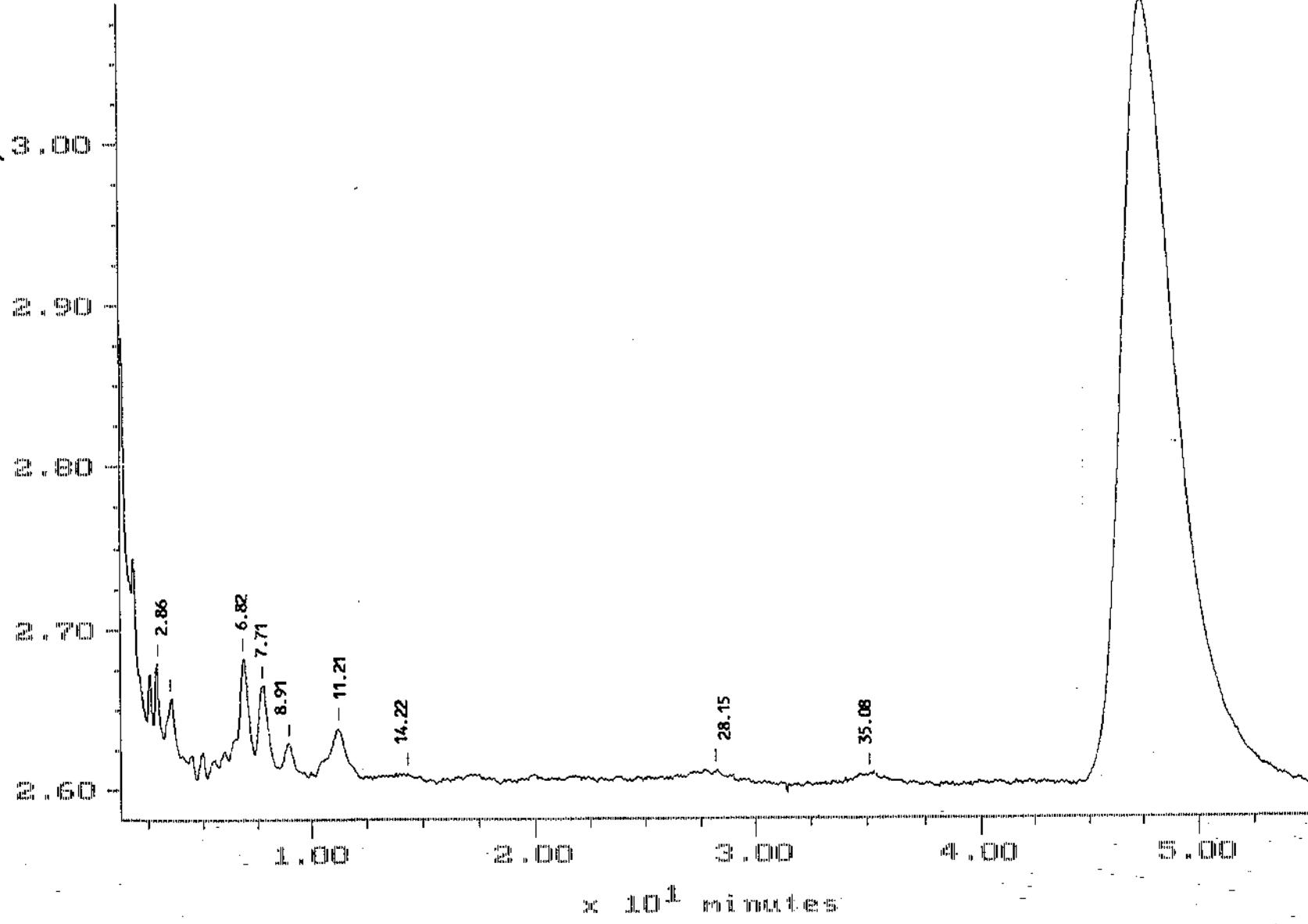
PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		1.897	BP	3252	27030	0.96				
2		2.143	PB	5258	94586	3.36				
3		2.850	BB	967	14210	0.50				
4		4.997	BB	7759	232738	8.26				
5		7.690	BB	2250	104097	3.69				
6		11.170	BB	35195	1313956	46.62				
7		15.577	BB	347	22459	0.80				
8	1	17.183	BB	472	23568	0.84	EXT	AREA	158.02	A1260-1
9	2	19.850	BB	805	51922	1.84	EXT	AREA	165.94	A1260-2
10	3	22.243	BB	492	34619	1.23	EXT	AREA	173.06	A1260-3
11	4	25.457	BB	578	37446	1.33	EXT	AREA	170.39	A1260-4
12	5	27.553	BB	371	36865	1.31	EXT	AREA	221.38	A1260-5
13		33.953	BB	263	39194	1.39				
14		40.603	BB	751	100465	3.56				
15	6	47.683	BB	4776	682527	24.22	EXT	AREA	133.04	DBC
16		51.980	BP	28	412	0.01				
17		52.153	PP	15	552	0.02				
18		52.943	PP	15	204	0.01				
19		53.407	PB	20	1687	0.06				
TOTAL				63614	2818537				1021.82	

Sample: 9410172-1 channel: detector 1
Acquired: 21-OCT-94 23:09 Method: C:\MAX\DATA2\PC10-21
Comments: PE3500 1.5%SP2250/1.95%SP2401 SUPELCOPORT 6FT X 4mm ID 5µl A/S INJ

Filename: PC102035

Operator: HAB

PCB/50C



MAXIMA 820 CUSTOM REPORT

Printed: 28-OCT-1994 7:29:38

SAMPLE: 9410172-1

#14 in Method: A1260 CALIBRATION PE8500
 Acquired: 21-OCT-1994 23:09
 Rate: 5.0 points/sec
 Duration: 55.000 minutes
 Operator: MAB

Type: UNKN
 Instrument: Instrument 2
 Filename: PC102035
 Index: Disk

DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		2.860	BP	392	4423	0.51				
2		3.510	PB	305	6188	0.72				
3		6.817	BB	529	11760	1.36				
4		7.710	BB	456	12161	1.41				
5		8.910	BB	158	3697	0.43				
6		11.207	BB	292	15328	1.78				
7		14.223	BB	33	1570	0.18				
8		28.153	BB	103	30223	3.51				
9		35.077	BB	80	9898	1.15				
10	6	47.657	BB	4631	766701	88.95	EXT	AREA	150.35	DBC ✓
TOTAL				6979	861950				150.35	

Sample: 9410172-2
Acquired: 22-OCT-94 0:04
Comments: PE8500 1.5%SP2250/1.95%SP2401 SUPRELCOPORT 6FT X 4mm ID Sut A/S INJ

Channel: detector 1

Filename: PC102036

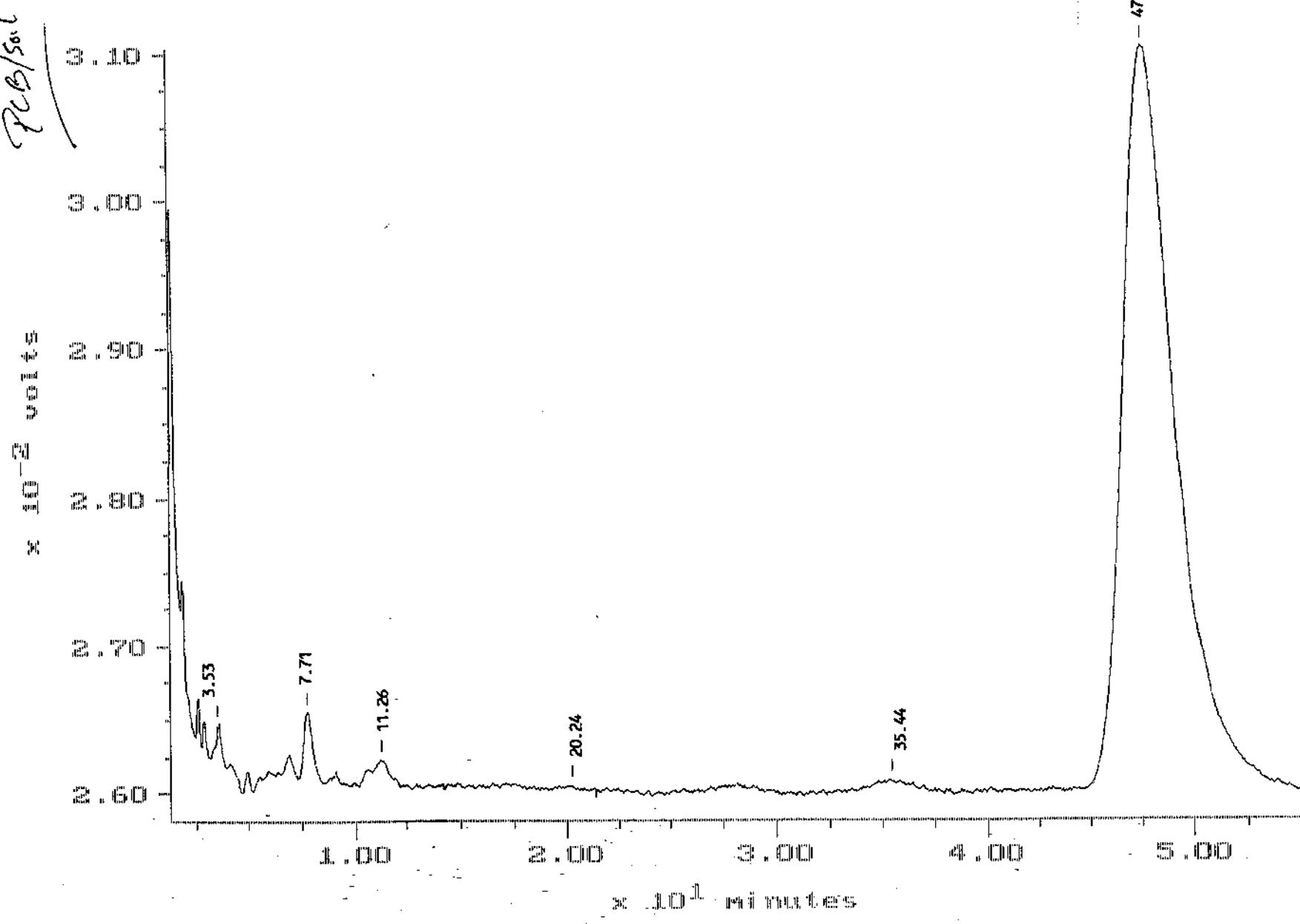
Method: C:\MAX\DATA2\PC10-21

Operator: MAB

$\times 10^{-2}$ cps

60
70
80
90
N

0
10
20
30
40
50
60
70
80
90
N



190

MAXIMA 820 CUSTOM REPORT

Printed: 28-OCT-1994 7:36:47

SAMPLE: 9410172-2

#15 in Method: A1260 CALIBRATION PE8500

Acquired: 22-OCT-1994 0:04

Rate: 5.0 points/sec

Duration: 55.000 minutes

Operator: MAB

Type: UNKN

Instrument: Instrument 2

Filename: PC102036

Index: Disk

DETECTOR: detector 1

PK#	ID#	Retention Time (minutes)	Type	Peak Height	Peak Area	Area Percent	Code	Base	Solution Conc	Component Name
1		3.530	BB	216	2737	0.37				
2		7.707	BB	450	12009	1.64				
3		11.260	BB	119	4542	0.62				
4		20.237	BB	61	5765	0.79				
5		35.443	BB	82	9766	1.33				
6	6	47.747	BB	4588	697464	95.25	EXT	AREA	136.11	DBC ✓
TOTAL				5516	732283				136.11	

ANALAB INC. 205 Campus Plaza 1, Raritan Center, Edison, NJ 08837, Tel: (908) 225-4111, Fax: (908) 225-4110

END ANALYTICAL REPORT